ENGLISH PROJECT
ENGLISH LITERATURE (PAPER 2)

Prescribed project from CISCE:

1) Character/thematic analysis.
2) Socio-economic, cultural, historical relevance/ background.
3) Summary/ paraphrase.
4) Appreciation of literary qualities.
5) Identifying with a character. Putting oneself in the place of the character in a given circumstances and explaining one’s actions.
6) Imagine alternative outcomes or endings in a literary piece and the effect on all concerned.

GENERAL INSTRUCTIONS:

1) Attempt all 3 topics.
2) All projects must be handwritten.
3) All project work must be submitted in file page with proper spiral binding.
4) The cover page should show the School’s name, Logo, Student’s Name, Class, Section and Subject. The cover page should be typed.
5) The second page should be about acknowledgement.
6) The third page should be about the content headings with their page numbers.
7) Each topic should be written on a new page.
8) Use pictures and captions wherever possible.
9) Marks will be deducted for spelling and grammatical errors.
10) Word limit is 1500.
ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my teacher (Name of the teacher)) who gave me the golden opportunity to do this wonderful project on the topic (Write the topic name).

I offer my sincere appreciation for the learning opportunities provided by my principal (Name of the principal) which also helped me in doing a lot of research and I came to know about so many new things. I am really thankful to them. I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

TOPIC 1 THE MERCHANT OF VENICE

The conflict between Shylock, the Jewish Moneylender and Antonio, the Christian Merchant is both religious and economic. Dwell on their enmity and explore the ways in which Shakespeare portrays the two characters to show their differences and similarities.

TASK 1- TEN THINGS I HATE ABOUT YOU-

1) Write in modern English ten reasons why Shylock hates Antonio. Justify it with the corresponding quote from the text.
2) Give five arguments on Antonio’s behalf.

TASK 2- Write a character analysis on the following:

Antonio, Shylock, Bassanio, Portia and Nerissa

Arrangement of The Merchant of Venice project:
1) William Shakespeare- Life and work
2) The Merchant of Venice [Picture of cover page of book]
3) Task 1
4) Task 2

**TOPIC 2 POETRY**

*With reference to The Bangle Sellers, prepare a project:*

1) Life and work of Sarojini Naidu.
2) Background of the poem.
3) Central theme of the poem.
4) Literary Devices- symbolism and imagery.

**TOPIC 3 SHORT STORY**

*With reference to An Angel In Disguise, prepare a project:*

1) Write the summary and analysis.
2) Write the character of Joe Thompson and Jane Thompson.

**ENGLISH LANGUAGE - Project is based on Aural Skill and Oral Skill**

**ENGLISH LANGUAGE**

**GENERAL INSTRUCTIONS:**

1. Take the print out of all the worksheets.
2. Grammar worksheets will be solved and attached in the Language copy.
3. All essays, letters, notice and email will be done in Language copy.


**WORKSHEET 1**

**Q.1. Write compositions on the given topics [300-350 words]:**

a) Write an account of an event which has happened in the last years and which you feel has affected the destiny of many people in your country.

b) One day, in the rainy season, a serious quarrel took place in your locality. You were waiting at the bus stop for your school bus. You witnessed the whole thing. Narrate the incident.

c) School life is the best phase of an individual’s life. Discuss for or against this topic.

d) Write a story based on the title: ‘Survivors’.

**Q.2. Write letters on the given topics:**

a) Write a letter to the Director of Health and Medical Services to the local hospital thanking him for the excellent care taken of your mother while under treatment in the hospital.

b) You have just attended a performance of ‘The Merchant of Venice.’ Write a letter to your friend telling him/her how you enjoyed the performance, mentioning acting and stage setting particularly.

**Q.3. a) You are the Secretary of the Literary Club of your school. Draft a notice to be displayed on the school notice board, informing the students about the ‘Literary Fest’ to be organized**
for a week in your school. Request the students to participate in the event. Give all the necessary details.

b) Write an e-mail to a famous literary person, requesting him to be the Guest of Honour at the ‘Literary Fest’ to be organized in your school. Use the details given in Q.3(a).

WORKSHEET 2

I. Fill in the blanks with appropriate words:

1. The prisoner escaped……………..means of a rope.
2. India is always ready to talk………….. Pakistan on any issue.
3. I have not met my parents ………last Diwali.
4. His father gave him a brand new bicycle………his birthday.
5. The Swami stood ……..the holy river, meditating and praying.
6. The striking workers asked………….a raise in their wages.
7. I am going …………..the market to buy some fruits.
8. He is the culprit I am looking………….. 

II. Fill in the blanks with the correct form of the word given in brackets:

We finally …………..(reach) a village where I …………..(meet) a lady whose age I …………..(can) not immediately make out. My translator …………..(find) it difficult to interpret the lady’s words because her dialect was quite different. She …………..(is) a dark-skinned and dark-haired lady. She must have been around seventy years old but there was no grey in her hair. She obviously could not afford to dye her
hair. So what was her secret? Nobody............(know). It must have been a ‘secret’ common to all for not one person in that whole village..........(has) a trace pf grey hair! I .............(think) about it for a long time.

III. Combine the following sentences without using ‘and’, ‘but’ or ‘so’:

1. I heard the noise. I opened the door.
2. He left his keys at home. It was unfortunate.
3. He is very honest. He is respected by all.
4. Her house is full of guests. She has to look after them.

IV. Rewrite the following sentences:

1. He was rewarded for his good behavior. {Begin: His behaviour..........}
2. In spite of being number one in the industry, Rohan is not happy. { Begin: Although........}
3. Exercise regularly but do not overdo it.{Begin: Though.................}
4. My mother left a month ago. { Begin: It was................}
5. As soon as the chief guest had seated himself, the play began.{Begin: No sooner...........}
6. None but a fool will be taken in by his trick. {Begin: Only.................}
7. Father will send you a message if his flight is cancelled. {Begin: Should.............}
8. We had not even walked one kilometer, they stopped us.{Begin: Hardly..................}
WORKSHEET 3 TRANSFORMATION OF SENTENCES

Rewrite the following sentences removing the Adverb ‘too’.

1. The principal was too busy to talk to us.
2. The dish is too hot to touch.
3. She was too noble to do such a mean thing.
4. The news is too good to be true.
5. The oranges are too cheap to be fresh.

Change the voice of the following sentences.

1. I read this book long ago.
2. My wallet has been stolen.
3. Promises should be kept.
4. Honour the brave.
5. Girls like boys to flatter them.

Change the Assertive sentences to negative and vice-versa.

1. She is richer than her aunt.
2. He left no stone unturned.
3. All believe in his honesty.
4. She is sometimes careless in her work.
5. I am not a bit tired.

Change the following sentences into Assertive or Interrogative sentences.

1. Who has not heard of Gandhi Ji?
2. There is nothing better than active life.
3. Is this the dress to wear in a party?
4. Who can run away from death?
5. It is no use crying over split milk.
Transform the following Exclamatory sentences into Assertive sentences and vice-versa.

1. What a charming sight!
2. It is a very fine day.
3. He is a great fool.
4. What a shame!
5. O! that I had the wings of dove.

Convert the following Simple sentences into Complex sentences.

1. The news of his death spread like wild fire.
2. The duration of his stay is doubtful.
3. His hiding place is still unknown.
4. We saw the birthplace of Shakespeare.
5. Time once lost is lost forever.

Convert the following Simple sentences into Compound sentences.

1. The sun having risen, the sky cleared.
2. In spite of being so old, he is active.
3. You can touch him at the peril of your life.
4. He was honoured because of his virtues.
5. Besides making a promise, he kept it.

WORKSHEET 4

TRANSFORMATION OF SENTENCES

Rewrite the following sentences according to the instructions given after each.

RULE: No sooner did ........ (1st form of Verb) than ........

OR: No sooner had/has ............ (3rd form of Verb) than ........

1. In spite of all her efforts, Susan didn’t succeed. (Begin: Despite………)
2. As soon as the bell rang, the children rushed out of class.  
   (Begin: No sooner……..)
3. As soon as David came on the crease, it started raining.  
   (Begin: No sooner……..)
4. No sooner did the batsman start hitting sixes than he was caught at long leg.  
   (Begin: As soon……..)
5. Though he is very poor, he helps others in need.  
   (Begin: In spite)
6. As soon as he saw the lion, he ran away.  
   (Begin: No sooner……..)
7. No sooner did I see him than I waved to him.  
   (Begin: As soon……..)
8. As soon as we reached the theatre, the film began.  
   (Begin: No sooner…………)
9. No sooner had Ram narrated the story than he was praised.  
   (Begin: Hardly)
10. As soon as the newspaper reaches the stands, it is sold out.  
    (Begin: No sooner……..)

WORKSHEET 5 TRANSFORMATION OF SENTENCES

Complete sentence B in each case.

RULE: Hardly had/has ……….. when …………..

Begin each sentence with : Hardly……..

1. No sooner did Seema hear the whistle than she jumped out of the bed.
2. No sooner had I told them what I would do than they began to protest.
3. The rain began just as soon as he stepped out of the house.
4. Just at the moment mankind discovered the secret of life, the comet destroyed the earth.
5. Immediately after he came back from Moscow, he was told to fly to New York.
6. Just as he started shaving, the lights went out.
7. No sooner did I lift the load than I felt a pain in my back.
8. Few people enjoy classical music these days.
9. Immediately after they entered the room, we burst into laughter.
10. No sooner had the rude supervisor entered the room than Mayank left.

**HISTORY/CIVICS PROJECT**

1. **Make a detailed Project on anyone of the following topics-**
   1. Compare the parliamentary and presidential forms of governments with reference to India and the U.S.A.
   2. Present a life sketch and contributions of any one of the following Presidents of India-Dr. Rajendra Prasad, Dr. S.RadhaKrishnan.
   3. Present a book review of Dadabhai Naoroji’s ‘Poverty and Un-British rule in India’ or Vijayalakshmi Pandit’s ‘The scope of happiness: A Personal memoir’ or Kalam’s Wings of Fire’.
4. Discuss the relevance of anyone of the following films to understand the history of 20th century Europe: The boy in the Striped Pyjamas, Life is Beautiful, Gandhi by Richard Attenborough or Sardar.

5. Make a PowerPoint presentation on India’s Independence and Partition or on the life and contribution of Netaji Subhash Chandra Bose.

6. Prepare a report on the contributions of any one of the following agencies of the United Nations – UNESCO/WHO/UNICEF.
7. Make a detailed PowerPoint presentation on Union Executive.

8. Do all the question/answers of the chapter Parliament and President in your copy. [Compulsory]

9. Make a PowerPoint presentation on all the bullet points of the lessons Parliament and President. [Compulsory]

**GEOGRAPHY PROJECT**

Candidates will be required to prepare a project report on any one topic. The topics for assignments may be selected from the list of suggested assignments given below. Candidates can also take up an assignment of their choice under any of the broad areas given below.

**Suggested list of assignments:**

1. **Local Geography:**
   (a) Land use pattern in different regions of India—a comparative analysis. (b) The survey of a local market on the types of shops and services offered.

2. **Environment:** Wildlife conservation efforts in India.

3. **Current Geographical Issues:** Development of tourism in India.

4. **Transport in India:** Development of Road, Rail, Water and Air routes.

5. List different type of industries in the States and collect information about the types of raw materials used, modes of their procurement and disposal of wastes generated. Classify these industries as polluting or environment friendly and suggest possible ways of reducing pollution caused by these units.
6. Need for industrialization in India, the latest trends and its impact on economy of India.

7. Visit a water treatment plant, sewage treatment plant or garbage dumping or vermin composting sites in the locality and study their working.

CHEMISTRY PROJECT

1. Compile the list of 20 spices/herbs/plant extracts used in our kitchen. Find its main composition and the ailment it is used to cure as per our ancient ayurveda. Compile it in the following format:

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>SPICE / HERB /PLANT EXTRACT USED IN OUR HOUSE</th>
<th>CHEMICAL PRESENT</th>
<th>CURING WHICH TYPE OF AILMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Draw flow chart of oxygen cycle and explain how it affects human health and environment.

NOTE:
1. THE PROJECT PREFERABLY MUST HANDWRITTEN.

THIS PROJECT HAS TO BE SUBMITTED AS HARD COPY WHEN THE SCHOOL REOPENS.

PHYSICS PROJECT

A. Format of the project should be as follows:

Projects should **hand written** /typed /in pdf format. CLEAR Diagrams if any can be colored. Use practical sheets placed in a cardboard (not plastic) file cover. Your cover page should have the following:

- Name of the student
- Class and Section
- Session 2021-22
- Topic of the Project

B. Your typed/**HAND WRITTEN** project should contain the following information.

- Acknowledgement
- Preface
- Index
- Detailed description of the project topic
- Conclusion
- Bibliography

C. Choose the project as follows:

a. **SET 1** is **COMPULSORY**

b. Choose **any one** section out of Set 2 or Set 3
SET 1 | COMPULSORY SECTION

CONCAVE AND CONVEX LENS

a) Draw a ray diagram and write the characteristics of image for a convex lens when an object is placed at:
   a. Infinity
   b. Beyond 2F
   c. At 2F
   d. Between F and 2F
   e. At F
   f. Between O and F

b) Draw a ray diagram and write the characteristics of image for a concave lens when an object is placed at:
   a. Infinity
   b. Anywhere on the principal axis

GLASS SLAB:

a) Trace the course of different rays of light refracting through a rectangular glass slab at different angles of incidence = 0, any other angle i.

b) Mark the angles of incidence, refraction and emergence.

c) Mark and define lateral displacement in each case.

PRISM:

a) For a triangular prism, trace the course of rays passing through it, measure angles i1, i2, A and δ.

b) Calculate i1 + i2 = A + δ and A = r1 + r2.

c) For a ray of light incident normally (i1=0) on one face of a prism, trace course of the ray. Measure the angle δ.
CHOOSE ANY ONE OF SET 2 OR SET 3

SET 2

Lever

a) Determine the mass of a metre rule using a spring balance or by balancing it on a knife edge at some point away from the middle and a weight W on the other side.
b) Describe the three different classes of levers by drawing a suitable diagram.
c) Calculate $MA = \frac{L}{E}$ and $VR = \text{effort arm/load arm}$.
d) Find which is suitable to be either a ‘Force Multiplier’ Or ‘Speed Multiplier’.

[There are many possibilities with a meter rule as a lever with a load (known or unknown) suspended from a point near one end (say left), the lever itself pivoted on a knife edge, use slotted weights suspended from the other (right) side for effort.]

Pulley / Block and Tackle Arrangement

a) Draw diagram to show the following pulley systems showing proper directions of tension, load and effort.
   a. Single Fixed Pulley
   b. Single movable pulley
   c. Combination of Single Fixed pulley with single movable pulley
   d. Block and Tackle Arrangement of pulleys with $MA=3,4,5$
b) Determine the VR and MA of each pulley system.
SET 3

ELECTRICITY

a) Using as simple electric circuit, verify Ohm’s law. Draw a graph, and obtain the slope.
b) Set up model of household wiring including ring main circuit.
c) Study the function of switches, staircase lighting switches and fuses.
d) Block diagram showing supply of power from Generating station to our houses/factories.
e) Calculate the electrical energy consumption of your house for a month in summer and a month in winter.

BIOLOGY PROJECT

Prepare a project on any topic of your choice from biology or environmental science.

Suggested topics for the Project-
a. Any topic from plant physiology
b. Any topic from animal physiology
c. Diseases (bacterial, protozoan, fungal. Viral)
d. Drug addiction
e. Alcoholism
f. Biodiversity
g. Ecosystem (land, forest aquatic soil)
h. Environmental pollution
i. Corona virus
j. Diabetes
k. Diseases related to circulatory system
l. Diseases related to respiratory system
m. Diseases related to nervous system, endocrine system
n. Plant diseases
o. Crop improvement strategies
p. Reproduction in organisms
q. Or any other topic of your choice

**GENERAL INSTRUCTIONS:**

1. The project has to be handwritten.
2. The project has to be submitted in a hard board file.
3. First page should have the acknowledgement.
4. Second page should have the content.
3. From the third page detail description of the topic.
4. You can attach graph, newspaper cuttings, diagrams, pictures related to the topic in your project.
5. Page limit 25-30 pages
6. Last page should be of bibliography.
7. Your cover page should have the following-
   a. Name of the student
   b. Class & Section
   c. session
   d. Topic of the project

**Format of Acknowledgement**

I would like to express my special thanks and gratitude to our Principal Dr. Anita Pauline Dey and the subject Teacher Mrs. Sangeeta Pandey who gave us the opportunity and fruitful guidance to do this project on the topic ______.
Secondly I would also like to thank my parents who helped me a lot in finalising this project. By doing this project I got enriched with many informations which can help in future.

COMMERCIAL APPLICATION PROJECT FOR 10 A B & C

Note: Parents are expected to ensure that the student should go through all the instructions given below before making the project.

Instructions:
1. There will be four separate assignments (Project) as per the topics given. They will be kept in one file later on (spiral binding).
2. Start with Acknowledgement, should be of one page, short and simple. Also write your name, class, section and roll no. below it. Don’t make separate acknowledgement for each topic. There should be only one common acknowledgement.
3. Order of each topic:
   • Name of the topic (one page)
   • Index (only serial no., content and page no., should be of one page)
   • Subject Matter of the topic (describe the topic with Introduction, relevant headings and sub headings, supported with pictures/diagrams/graphs/tables, as per the requirement. Should not be more than 4 to 5 pages.)
   • Conclusion (one page)
   • Bibliography (One page. Write the name of relevant websites and books consulted for the making of the assignment.)
   • Note: Same order will be followed for each topic.
4. Each assignment should not be more than 8 to 10 pages including all the points mentioned above. Don't use vulgar or objectionable pictures.

5. Relevant pictures should be pasted neatly and must be bordered in black along with labelling or heading. Use only black and blue pens for writing.

6. Sample assignments are given at the end of the course book. These can be read to understand the topic but don't copy the matter from there.

7. Course book, other reference books and relevant websites can be used to find the subject matter of the assignment.

Course Book – Commercial Applications Part II by Dr. C.B. Gupta.

**Topics for the Assignments (Project) :**

1. Design a marketing plan for the launch of a new soap in the price range of Rs. 15 - 20.

2. Make a report on the new forms of markets and marketing such as tele-markets (marketing through phones), home shopping (catalogues like Burlingtons, etc.), direct marketing (example Eureka-Forbes). What is their relevance in future and why?

3. Study the annual report (balance sheet and profit and loss account) of any company and comment on its financial health.

4. Study the working of the commercial banks in India by studying the working of the branch office of any Public Sector Commercial Bank such as Canara Bank, SBI, Bank of Baroda etc.
COMMERCIAL STUDIES PROJECT
ONLY FOR 10 C

Note: Parents are expected to ensure that the student should go through all the instructions given below before making the project.

Instructions:
1. There will be three separate assignments (Project) as per the topics given. They will be kept in one file later on (spiral binding).
2. Start with Acknowledgement, should be of one page, short and simple. Also write your name, class, section and roll no. below it. Don’t make separate acknowledgement for each topic. There should be only one common acknowledgement.
3. Order of each topic:
   • Name of the topic (one page)
   • Index (only serial no., content and page no., should be of one page)
   • Subject Matter of the topic (describe the topic with Introduction, relevant headings and sub headings, supported with pictures/diagrams/graphs/tables, as per the requirement. Should not be more than 4 to 5 pages.)
   • Conclusion (one page)
   • Bibliography (One page. Write the name of relevant websites and books consulted for the making of the assignment.)
   • Note: Same order will be followed for each topic.
4. Each assignment should not be more than 8 to 10 pages including all the points mentioned above. Don't use vulgar or objectionable pictures.
5. Relevant pictures should be pasted neatly and must be bordered in black along with labelling or heading. Use only black and blue pens for writing.

6. Sample assignments are given at the end of the course book. These can be read to understand the topic but don't copy the matter from there.

7. Course book, other reference books and relevant websites can be used to find the subject matter of the assignment.

Course Book – Commercial Studies Part II by Dr. C.B. Gupta.

TOPIC 1: Marketing Mix
Study the product life cycle (PLC) of a new soap in the price range of Rs 50-100.

TOPIC 2: Advertising
Study two different advertisements in any one media (print, television, audio) of the FMCG (fast moving consumer goods) on Beauty products and explain their positive and negative points.

TOPIC 3: Banking
Study different types of bank accounts (fixed deposits, recurring account, current account etc), any 5 types and find out what are the relevant documents required for opening such types of accounts, who all can open it and what is the difference in their rates of interests.
## COMPUTER APPLICATION PROJECT

<table>
<thead>
<tr>
<th>Time to be Spent</th>
<th>1 hour per day for 5 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Specification :</td>
<td>Intermediate Assignment File to be completed</td>
</tr>
<tr>
<td>Materials / Resources Required :</td>
<td>Computer with BlueJ and JDK installed, Text Book, Soft copy of Assignment File, Any text editor( preferably MS WORD)</td>
</tr>
</tbody>
</table>
| Instructions / Guidelines : | • Complete all 8 assignments from the assignment list shared.  
• The below headings will be integral part of assignment file  
  ➢ COVER PAGE  
  ➢ Index  
  ➢ Acknowldgement  
  ➢ Bibliography or References  
• For each assignment, arrange softcopy of :  
  ➢ Problem Statement  
  ➢ SYNOPSIS (In the form of explanation to each Assignment Question)  
  ➢ Coding  
  ➢ Input / Output screen  
  ➢ VDT  
• Each page in the softcopy must have a footer as specified : Student name/class/ICSE 2021/Computer Application/Practical File  
• Compile the complete assignment in a single file in sequential order |
In case you get any error in a program which you are unable to resolve, please whatsapp the code to 9935488883 or have a telephonic conversation for problem solving.

JAVA ASSIGNMENTS TO BE COMPLETED FOR ICSE 2021 PRACTICAL FILE

Number Problems/Menu Driven programs based on usage of loops/switch

ASSIGNMENT -1

Using the switch statement, write a menu driven program for the following: [15]
(i) To print the Floyd’s triangle [Given below]
   1
   2 3
   4 5 6
   7 8 9 10
   11 12 13 14 15

(ii) To display the following pattern based on value of n.
    For example if n=5 then print,
    5 4 3 2 1
    4 3 2 1
    3 2 1
    2 1
    1

ASSIGNMENT -2

Write a program in Java to accept a number and check whether it belongs to the Fibonacci Series (sequence) or not.
Fibonacci Series:
The Fibonacci Sequence is the series of numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, …

The first two numbers in the series is ‘0’ and ‘1’ and every next number is found by adding up the two numbers before it.

The 2 is found by adding the two numbers before it (1+1)
Similarly, the 3 is found by adding the two numbers before it (1+2),
And the 5 is (2+3),
and so on!

**Example:** the next number in the sequence above would be 21+34 = 55

Here is a longer list:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181, 6765, 10946, 17711, 28657, 46368, 75025, 121393, 196418, 317811, …

**ASSIGNMENT -3**

The International Standard Book Number (ISBN) is a unique numeric book identifier, which is printed on every book. The ISBN is based upon a 10-digit code. The ISBN is legal if 1*digit1 + 2*digit2 + 3*digit3 + 4*digit4 + 5*digit5 + 6*digit6 + 7*digit7 + 8*digit8 + 9*digit9 + 10*digit10 is divisible by 11.

Example: For an ISBN 1401601499
Sum=1*1 + 2*4 + 0*0 + 4*1 + 5*6 + 6*0 + 7*1 + 8*4 + 9*9 + 10*9 = 253 which is divisible by 11.

Write a program to:
(i) input the ISBN code as a 10-digit number
(ii) If the ISBN is not a 10-digit number, output the message “Illegal ISBN” and terminate the
(iii) If the number is 10-digit, extract the digits of the number and compute the sum as explained above.

If the sum is divisible by 11, output the message “Legal ISBN”. If the sum is not divisible by 11, output the message “Illegal ISBN”.

ASSIGNMENT -4

An Emirp number is a number which is prime backwards and forwards. Example: 13 is an Emirp number since 13 and 31 are both prime numbers. Write a program to accept a number and check whether it is an Emirp number or not.

ASSIGNMENT -5

Write a menu driven program in Java to provide the following options to generate and print output based on user’s choice:
(a) To input a number and check whether it is a NEON number or not
(b) To print the REPUNIT series: 1, 11, 111, 1111, …. upto 'n' terms
(c) To print the sum of factorial of first n terms, where n is input by the user.

For example if
n=5 then sum=1+2+6+24+120=153 which is the sum of 1!+2!+3!+4!+5!

A number is said to be NEON, if sum of all the digits of the square of the number is equal to the number itself. For example 9 is a NEON number. (Workings: Square of 9 = 81. Sum of digits of square: 8 + 1 = 9)

For an incorrect menu choice an appropriate error message should be displayed.
Programs based on if ..else /switch conditional construct

ASSIGNMENT -6

A Credit card company allows a limit to spend Rs. 15000 to its clients. It also offers cash back facility according the table shown below. Input the amount spent by the user and display the cash back amount that he is entitled to.

<table>
<thead>
<tr>
<th>Amount (in Rs.)</th>
<th>Cash Back (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First 1000</td>
<td>100</td>
</tr>
<tr>
<td>Next 2000</td>
<td>200 + 2% of amount exceeding 1000</td>
</tr>
<tr>
<td>Next 4000</td>
<td>400 + 4% of amount exceeding 3000</td>
</tr>
<tr>
<td>Next 8000</td>
<td>800 + 8% of amount exceeding 8000</td>
</tr>
</tbody>
</table>

Write a program to declare the class 'Credit' that takes in the name of the client and the amount spend by him. Calculate the cash back amount and print it along with all the other input details.

(Assume there are 20 clients. Take details and print the requisite output for each of them one by one.)

ASSIGNMENT -7

An electronic shop has announced the following seasonal discount on purchase of certain items.

<table>
<thead>
<tr>
<th>Purchase Amount in Rs.</th>
<th>Discount on Laptop</th>
<th>Discount on Desktop PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25000</td>
<td>0.0%</td>
<td>5.0%</td>
</tr>
<tr>
<td>25001-57000</td>
<td>5.0%</td>
<td>7.5%</td>
</tr>
<tr>
<td>57001-100000</td>
<td>7.5%</td>
<td>10.0%</td>
</tr>
<tr>
<td>More than 100000</td>
<td>10.0%</td>
<td>15.0%</td>
</tr>
</tbody>
</table>
Write a program based on the above criteria to input name, address, amount of purchase, and type of purchase (L or 1 for Laptop and D or 2 for Desktop) by a customer. Compute and print the net amount to be paid the customer along with name and address.

[Hint : discount= (discount rate /100) * amount of purchase
Net amount= amount of purchase – discount]

ASSIGNMENT -8

Mr. A. P. Singh is a software engineer. He pays annual income tax as per the given table:

<table>
<thead>
<tr>
<th>Annual Salary</th>
<th>Rate at Income Tax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to Rs.1,00,000</td>
<td>No Tax</td>
</tr>
<tr>
<td>Rs.1,00,001 to Rs.1,50,000</td>
<td>10% of the amount exceeding Rs.1,00,000</td>
</tr>
<tr>
<td>Rs.1,50,001 to Rs.2,50,000</td>
<td>Rs.5000 + 20% of the amount exceeding Rs.1,50,000</td>
</tr>
<tr>
<td>Above Rs.2,50,000</td>
<td>Rs.25,000 + 30% of the amount exceeding Rs.2,50,000</td>
</tr>
</tbody>
</table>

Write a program in Java to compute the income tax to be paid by him

MATHEMATICS PROJECT

1. Do a survey of different types of Bank Accounts: Saving account, Recurring account, Fixed deposit account etc, (of atleast 5 different Banks) and compare their rates of interest.

2. Take a square sheet of paper of side 10 cm. Four small squares are to be cut from the corners of the square sheet and then the paper folded at the cuts to form an open Box.
What should be the size of the squares cut so that the volume of the open Box is maximum?

HINDUSTANI CLASSICAL MUSIC PROJECT

ONLY FOR 10 C

1. LIFE AND CONTRIBUTION IN BRIEF OF AMIR KHUSRO AND PT. VISHNU DIGAMBAR PALUSKAR.

2. A BRIEF DESCRIPTION OF FOUR EMINENT VOCALISTS (PRESENT OR RECENT PAST).

3. NAMES OF DIFFERENT PARTS (COMPONENTS) OF THE TANPURA WITH THE HELP OF A SIMPLE SKETCH. TUNING AND HANDLING OF THE INSTRUMENT.

HINDI PROJECT

परियोजना कार्य के विषय

आवश्यक निर्देश:

.सभी प्रश्न करना अनिवार्य है |

.परियोजना कार्य में सभी मानकों का प्रयोग किया जाना चाहिए |

.सभी प्रश्नों को मिलाकर यह परियोजना कार्य 1500 शब्द से कम नहीं होना चाहिए |

.लिखावट सुस्पष्ट होनी चाहिए |

1 प्रमुख भारतीय त्योहारों का सचित्र वर्णन |
2 आजकल की भागदौड़ भरी जिंदगी में रिश्ते-नातों की अहमियत खत्म होती जा रही है” इसके क्या कारण हैं? आप इन रिश्तों को संजोने के लिए क्या करेंगे?

3 कहानीकार प्रेमचंद का जीवन परिचय, साहित्यिक योगदान की चर्चा करते हुए ‘बड़े घर की बेटी’ कहानी का सचित्र सारांश लिखते हुए प्रमुख पात्रों का चरित्र चित्रण कीजिए।

4 सर्वश्रेष्ठ दयाल सक्सेना के जीवन वृत्त एवं साहित्यिक सेवाओं पर प्रकाश डालते हुए उनकी कविता ‘मेघ आए’ का नाट्य रूपांतरण कीजिए।

FINE ARTS PROJECT-

Instructions:

Art paper 1 and Art paper 2:

Illustrate in detail, with colour concept, the composition given below in your Art Copy.

Time to be taken for the same is 2 hrs.