A PROJECT WORK SHOULD BE DONE FOR ATLEAST 40 Man Hours. The topic should be selected from the list of topics given below and executable file and source code should be kept in a Compact Disc which has to be submitted-

Guidelines

1) PROJECT WORK should be done for at least 40 Man Hours.
2) It must include concepts of structure, Array, Functions etc.

Topics

1) Book details
2) Bank details
3) Game / Quiz

2-

Rewrite the following program code after removing the syntax error(s) (if any). Underline each correction.

```cpp
#include<iostream.h>
#define SIZE 100;

class FLIGHT {
    long FlightCode = 0;
    char Description[SIZE];
    void FLIGHT()
    {
        Description[0] = "\0";
    }
    void ENTER()
    {
        cout<<endl<<"Enter Flight Code from keyboard : ";
        cin>>FlightCode;
        cout<<endl<<"Enter the description : ";
        cin>>Description;
    }
};

void main()
{
    FLIGHT COC;
    COC.ENTER;
    COC.FlightCode=0;
}
```
Define a class Candidate in C++ with following description:

Private Members

- A data member RNo (Registration Number) of type long
- A data member Name of type string
- A data member Score of type float
- A data member Remarks of type string

- A member function AssignRem() to assign Remarks as per the Score obtained by a candidate. Score range and the respective Remarks are shown as follows:

**Score Remarks**

>=50 Selected
less than 50 Not selected

Public Members

- A function ENTER() to allow user to enter values for RNo, Name, Score & call function AssignRem() to assign the remarks.
- A function DISPLAY() to allow user to view the content of all the data members.

Define a class Travel in C++ with the description given below:

Private Members:

- T_Code of type string
- No_of_Adults of type integer
- No_of_Children of type integer
- Distance of type integer
- TotalFare of type float

Public Members:

- A constructor to assign initial values as follows:
  T_Code with the word “NULL”
  No_of_Adults as 0
  No_of_Children as 0
  Distance as 0
  TotalFare as 0

- A function AssignFare() which calculates and assigns the value of the data member TotalFare as follows:
  For each Adult
  **Fare (Rs) For Distance (Km)**
  500 >=1000
  300 <1000 & >=500
  200 <500
  For each Child the above Fare will be 50% of the Fare mentioned in the
above table.
For example:
If Distance is 750, No_of_Adults = 3 and No_of_Children = 2
Then TotalFare should be calculated as
No_of_Adults * 300 + No_of_Children * 150
i.e. 3 * 300 + 2 * 150 = 1200

- A function EnterTravel( ) to input the values of the data members T_Code, No_of_Adults, No_of_Children and Distance; and invoke the AssignFare( ) function.

- A function ShowTravel( ) which displays the content of all the data members for a Travel.

5-

Define a class named HOUSING in C++ with the following descriptions:
Private members
REG_NO integer(Ranges 10 — 1000)
NAME Array of characters(String)
TYPE Character
COST Float
Public Members
· Function Read_Data( ) to read an object of HOUSING type
· Function Display() to display the details of an object
· Function Draw Nos( ) to choose and display the details of 2 houses selected randomly from an array of 10 objects of type HOUSING Use random function to generate the registration nos. to match with REGNO from the array.

6-

Define a class Competition in C++ with the following descriptions:
Private Members:
    Event_no integer
    Description char(30)
    Score integer
    Qualified char
    Award(int) To award qualified as ‘Y’, if score is more than the cut off score passed as argument to the function else ‘N’.

Public Members:
- A constructor to assign initial values Event_No as 101, Description as “State level”, Score is 50 and Qualified as ‘N’ through parameters.
- Input(), To take the input for Event_no, Description and Score and call the function Award().
- Show(), To display all the details.