Practical Assignment

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Question 1.

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 Remark 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.

Question 2.

Define a class ITEM in C++ with the following description :

Private Members

 Code of type integer (Item Code)

 Iname of type string (Item Name)

Price of type float (Price of each item)

 Qty of type integer (Quantity of item in stock)

 Offer of type float (Offer percentage on the item)

 A member function GetOffer( ) to calculate Offer percentage as per the following rule :

 If Qty <= 50 Offer is 0

If 50 < Qty <= 100 Offer is 5

If Qty >100 Offer is 10

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 Public Members

A function GetStock( ) to allow user to enter values for Code, Iname, Price, Qty and call function GetOffer( ) to calculate the offer.

 A function ShowItem( ) to allow user to view the content of all the data members.

Question3

class Exam {

int Marks;

 char Subject[20];

 public:

Exam () //Function 1 {

Marks = 0;

strcpy (Subject,”Computer”);

 } Exam(char S[]) //Function 2

 { Marks = 0; strcpy(Subject,S); }

 Exam(int M) //Function 3

 { Marks = M;

 strcpy(Subject,”Computer”); }

 Exam(char S[], int M) //Function 4

 { Marks = M; strcpy (Subject,S); }

 Exam(Exam &E); //Function 5

 ~Exam() //Function 6

 {} };

1. Write statements in C++ that would execute Function 3 and Function 4 of class Exam.
2. Which feature of Object Oriented Programming is demonstrated using Function 1, Function 2, Function 3 and Function 4 in the above class Exam?
3. In Object Oriented Programming, what is Function 6 referred as and when does it get invoked/called?