ST. JOSEPH'S ACADEMY, DEHRADUN

IST UNIT TEST MAY, 2022-23

SUBJECT: COMPUTER SCIENCE. CLASS: X M.M.: 20 TIME: 45 MINUTES

NAME OF THE STUDENT. .....CLASS/SECTION ROLL NO...

ATTEMPT ALL QUESTIONS

Question1.

a) What is a function prototype? [2]

b) What is the difference between private and protected access specifier? [2]

c) Identify the error in the following code if any [2]

i)
```
public int diff ( int a , int b)
{
  int d = a – b;
  int e =a * b;
  return d , e;
}
```

ii)
```
public void diff ( int a , int b)
{
  int d = a – b;
  return d ;
}
```

d) Difference between formal and actual parameters [2]

Question 3. Define a class Calculator as follows: [6]

Class Name : Calculator

Methods / Functions

Add (int , int) : Adds two integer numbers as arguments and **returns** the result

Multi (int , int) : Multiplies the two integer arguments and **prints** the product

Write a main method to create an object and call the above member functions suitably.

Question 4. Define a class Reliance as follows [6]

Class Name: Reliance

Data Members/ Instance Variables

name	:	to input the name of the customer
cost	:	to input the total cost of items purchased
disc	:	to store the discount amount
amt:		to store the amount to be paid after the discount

Methods/ Functions

input ( )	:	to input the customer details
discount ( )	:	calculates and store the discount according to the table

Amount of purchase	Discount %
Rs.0 to Rs. 500	5%
Rs. 501 to Rs. 1000	10%
Above Rs. 1000	20%

calc()	:	calculates and stores the amount to be paid as amt = cost – disc
display( )	:	displays the customer details along with the discount amount and the amount to be paid

Write a main method to create an object and call the above member functions suitably.