TEAM 9

TEAM LEAD :

- **KAVITHA R**

TEAM MEMBERS :

- **LAVANYA D**
- **SUVETHA S**
- **KEERTHANA P**

LAB PROGRAMS : 24/5/2022

QUESTION 1

Define a class ElectricBill with the following specifications:
String n — to store the name of the customer
int units — to store the number of units consumed
double bill — to store the amount to be paid
void accept( ) — to accept the name of the customer and number of units consumed
void calculate( ) — to calculate the bill as per the following tariff:

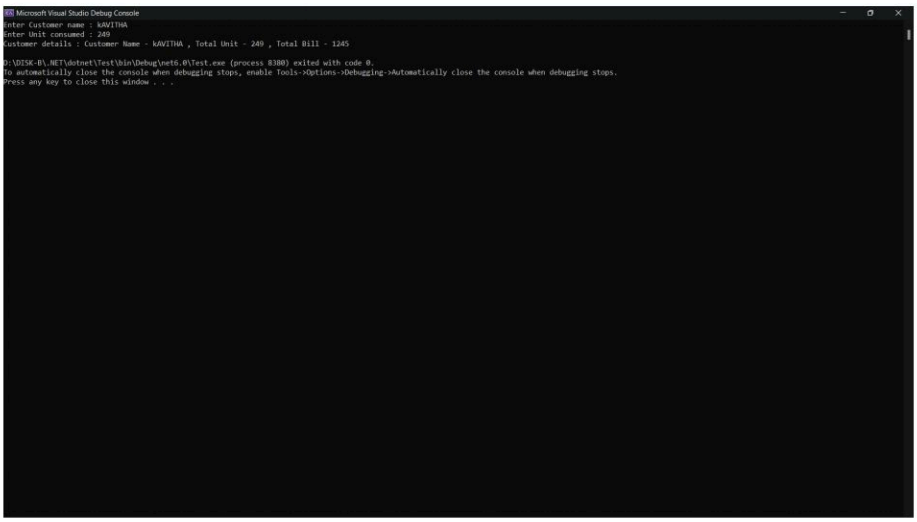
Number of units	Rate per unit
First 100 units	Rs.2.00
Next 200 units	Rs.3.00
Above 300 units	Rs.5.00

A surcharge of 2.5% charged if the number of units consumed is above 300 units.
void print( ) — To print the details as follows:
Name of the customer: .....
Number of units consumed: .....
Bill amount: .....

PROGRAM :

```
using System;
namespace Test
{
    class electricbill
    {
        string name;
        int unit;
        double bill;
        public electricbill()
        {
            name = "";
            unit = 0;
            bill = 0.0;

        }

        void icompute()
        {
            if (unit <= 100)
            {
                bill = 2 * unit;
            }
            else if (unit <= 300 && unit <= 100)
            {
                bill = 3 * unit;
            }
            else
            {
                bill = 5 * unit;
            }

        }
        void iin()
        {
            Console.Write("Enter Customer name : ");
            name = Console.ReadLine();
            Console.Write("Enter Unit consumed : ");
            unit = int.Parse(Console.ReadLine());

        }
        public void iout()
        {
            iin();
            icompute();
            Console.WriteLine("Customer details : Customer Name - {0} , Total Unit - {1} ,
Total Bill - {2}", name, unit, bill);

        }

    }


    class Program
    {
        static void Main(string[] args)
        {
            electricbill customer1 = new electricbill();
            customer1.iout();
        }
    }
}
```

OUTPUT :



QUESTION 2

Define a class student with the following specification. + +

admno integer

sname 20 character

eng. math, science float

total float

ctotal() a function to calculate eng + math + science with float return type.

Takedata() Function to accept values for admno, sname, eng, science and invoke

ctotal() to calculate total.

Showdata() Function to display all the data members on the screen.

PROGRAM :

```
using System;
namespace Test
{
    class Student
    {
        string name;
        int admno;
        float eng, math, science, total;



        public Student()
        {
            name = "";
            eng = 0;
            math = 0;
            science = 0;
            total = 0;
            admno = 0;
        }

        float ctotal(float e1, float m1, float s1)
        {
            float t1 = e1 + m1 + s1;
            return t1;
        }


        void iin()
        {
            Console.Write("Enter Student name : ");
            name = Console.ReadLine();
            Console.Write("Enter admission number : ");
            admno = int.Parse(Console.ReadLine());
            Console.Write("Enter english mark : ");
            eng = float.Parse(Console.ReadLine());
            Console.Write("Enter Maths mark : ");
            math = float.Parse(Console.ReadLine());
            Console.Write("Enter Science mark : ");
            science = float.Parse(Console.ReadLine());

        }
        public void iout()
        {
            iin();
            total = ctotal(eng, math, science);
            Console.WriteLine("{0}'s total is {1}", name, total);



        }

    }

    class Program
    {
        static void Main(string[] args)
        {
            Student s1 = new Student();
```

```
            s1.iout();
        }
    }
}
```

OUTPUT :