```
package new_package;

import java.util.Scanner;

public class Assignment1question1{
    static float code,x,y;

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the code :");
        code=sc.nextFloat();
        System.out.println("Enter the x :");
        x=sc.nextFloat();
        System.out.println("Enter the y :");
        y=sc.nextFloat();
        arithmetic(code, x, y);


    }

    private static void arithmetic(float code,
```

```
float x, float y) {
        if(code==1) {
            float sum = x+y;
            System.out.println("Sum of X and Y :
"+sum);



        }
        else
            System.out.println("sum is : 0.00");
    }

}
```

```
package new_package;

import java.util.Scanner;
```

```
public class Assignmet1question2 {
    static float purchase,rate;
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the
purchase :");
        purchase=sc.nextFloat();
        System.out.println("Enter the rate :");
        rate=sc.nextFloat();


        if(purchase>1000) {
            double discount = (purchase*0.9);
            double TotalExpense = (discount*rate);
            System.out.println("Total expense :
"+TotalExpense);

        }
        else {
            double TotalExpense =
(rate*purchase);
```

```
            System.out.println("Total expense :
"+TotalExpense);

        }



    }

}
```

```
package new_package;

import java.util.Scanner;

public class Assignment1question3 {
```

```
    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the
currentNumber :");
        int currentNumber = sc.nextInt();

        if((currentNumber%2) != 0) {
            currentNumber=
(currentNumber*3)+1;
            System.out.println("currentNumber
is :"+currentNumber);

        }
        else {
            currentNumber= currentNumber/2;
            System.out.println("currentNumber
is :"+currentNumber);
        }

    }
```

}

```
package new_package;

import java.util.Scanner;

public class Assignment1question5 {

    static int cost;

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the cost :");
        int cost = sc.nextInt();
```

```
        if(cost<=15000) {
            System.out.println("Mobile choosen is
within the budget");

        }
        else {
            System.out.println("Mobile choosen is
beyond the budget");
        }



    }

}
```

```
import java.util.Scanner;
public class Main
{
    public static void main (String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter the car no:");
        int num=sc.nextInt();
        if(num<1000 || num>9999)
        {
            System.out.println(num+" is not a
valid car number");
        }
        else
        {int sum=0;
            while(num>0)
            {
                sum+=num%10;
                num/=10;
            }
            if(sum%3==0 || sum%5==0 ||
sum%7==0)
            {
```

```
            System.out.println("Lucky Number");
        }
        else
        {
            System.out.println("Sorry its not my
lucky number");
        }
    }
  }
}
```

```
import java.util.Scanner;
public class Main
{
   public static void main(String[] args) {

      Scanner sc =new Scanner(System.in);
      System.out.println("Enter the color:");
      String color=sc.next();
```

```
        sc.nextLine();

        switch(color) {
            case "green" :
            System.out.println("Go");
            break;

        case "red" :
            System.out.println("Stop");
             break;
        case "yellow" :
            System.out.println("proceed with
caution");
            break;

        default:
        System.out.println("prepare to go");
        break;
        }
    }
}
```

```
import java.util.Scanner;
class Main {
      public int teenSum(int num1, int num2) {
  int sum = num1+num2;
  if ((num1 >= 13 && num1 <= 19) || (num2 >=
13 && num2 <= 19))
    return 19;
  else
    return sum;
  }

  public static void main(String[] args) {

    int a,b;
    Scanner sc=new Scanner(System.in);
    System.out.println("a:");
```

```
    a=sc.nextInt();
    System.out.println("b:");
    b=sc.nextInt();


    Main obj = new Main();

    int result = obj.teenSum(a,b);
    System.out.println("teenSum: " + result);
  }
}
```

```
import java.util.Scanner;
public class Season
{
    public static void main (String[] args) {
```

```
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the month:");
           int mon=sc.nextInt();
           if(mon>12||mon<1)
           {
              System.out.println("Invalid month");
           }
           else if(mon>=3&&mon<=5)
           {
              System.out.println("Season:Spring");
           }
           else if(mon>=6&&mon<=8)
           {

System.out.println("Season:Summer");
           }
           else if(mon>=9&&mon<=11)
           {

System.out.println("Season:Autumn");
           }
           else if(mon==12||mon==1||mon==2)
```

```
        {
            System.out.println("Season:Winter");
        }
    }
}
```

```
import java.util.Scanner;
public class Main
{
    public static void main (String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("number:");
        int num=sc.nextInt();
        if(num==9 || num==10)
        {
            System.out.println("excellent");
```

```
    }
    else if(num==7 || num==8)
    {
      System.out.println("notable");
    }
    else if(num==6)
    {
      System.out.println("good");
    }
    else if(num==5)
    {
      System.out.println("improved");
    }
    else if(num==0 || num==1 || num==2 ||
num==3 || num==4 )
    {
      System.out.println("fail");
    }

    else
       {
          System.out.println("invalid");
```

```
        }
    }
}
```

DONE
