

#1

```
public class PROGRAM1 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("HELLO WORLD");
        System.out.println("HELLO AGAIN");
        System.out.println("I LIKE TYPING");
        System.out.println("THIS IS INTERESTING");
        System.out.println("THIS IS FUN");
        System.out.println("YAY! PRINTING");
        System.out.println("I \"SAID\" NOT TOUCH THIS");

    }

}
```

#2

```
public class PROGRAM2 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("+-----+");
        System.out.println("|                                     #####|");
        System.out.println("|                                     #####|");
        System.out.println("|                                     #####|");
        System.out.println("|                                     #####|");
        System.out.println("|          YAGYA SRIVASTAVA          |");
        System.out.println("|          K-5/21,SIROMAN NAGAR,JAMSHEDPUR|");
        System.out.println("+-----+");

    }

}
```

#3

```
public class PROGRAM3 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("Y          Y"          +
"SSSSSSSSSSSSSSSS");
        System.out.println(" Y          Y"          +          "S");
        System.out.println("  Y      Y"          +          "S");
        System.out.println("   Y   Y"          +          "S");

    }

}
```

```

        System.out.println("    Y"      +      "S");
        System.out.println("    Y"      +
"SSSSSSSSSSSSSS");
        System.out.println("    Y"      +
"S");
        System.out.println("    Y"      +
"S");
        System.out.println("    Y"      +
"S");
        System.out.println("    Y"      +
"S");
        System.out.println("    Y      +
SSSSSSSSSSSSSS");

    }
}

```


#1

```

public class program1 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int year =2016;
        int regdno =1641018350;
        System.out.println("my regdno. is="+regdno);
        System.out.println("i have taken admission in year="+year);

    }

}

```

#2

```

public class ASS2program2 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a =113;
        double b =2.71828;
        System.out.println("This is room # "+a);
        System.out.println("e is close to "+b);

    }

}

```

#3

```

public class prgrm3 {

```

```

        public static void main(String[] args) {
            // TODO Auto-generated method stub
            int a =1;
            int b =10;
            int c =a;
            a =b;
            b =c;
            System.out.println("a =" +a);
            System.out.println("b =" +b);

        }
    }
}

```

#4

```

public class prgrm4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a =1;
        int b =10;
        a =a+b;
        b =a-b;
        a =a-b;
        System.out.println("a =" +a);
        System.out.println("b =" +b);

    }

}

```

#5

```

import java.util.Scanner;
public class prgrm5 {

    public static void main(String args[]) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int N;

        System.out.println("Enter NUMBER");
        N = in.nextInt();
        System.out.println("NUMBER " +N);
        System.out.println("SQUARE " +N*N);
    }
}

```

#6

```

import java.util.Scanner;
public class prgrm6 {

```

```

        public static void main(String args[]) {
            // TODO Auto-generated method stub
            Scanner in =new Scanner(System.in);
            int age;
            double weight,height;
            System.out.println("Enter the age,height,weight");
            age = in.nextInt();
            height = in.nextDouble();
            weight = in.nextDouble();
            System.out.println("So, you're "+age+" years
old"+", "+height+"tall "+"and "+weight+" kg heavy");

        }

    }
#7
import java.util.*;

public class program10 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int weight;
        double height,BMI;
        System.out.println("Enter the height in m,weight in kg");
        height = in.nextDouble();
        weight = in.nextInt();
        BMI =((weight)/(height*height));
        System.out.println("body mass index="+BMI);

    }

}

#8
import java.util.Scanner;

public class PROGRAM8 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        double n1,n2,n3,result;
        System.out.println("What is your first number?");
        n1 =in.nextDouble();
        System.out.println("What is your second number?");
        n2 =in.nextDouble();
        System.out.println("What is your third number?");
        n3 =in.nextDouble();
        double sum = (n1+n2+n3);
        result = (sum/2);
    }

}

```

```

        System.out.println(result);

    }

}

#9
import java.util.Scanner;

public class program9 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        double gross,basic,hra,da;
        System.out.println("enter basic of your salary");
        basic =in.nextDouble();
        da =(0.4*basic);
        hra =(0.2*basic);
        gross =(basic+hra+da);
        System.out.println("Gross salary of a person is Rs "+gross);

    }

}

```

```

#10
import java.util.Scanner;
public class program13 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        double f,convert;
        System.out.println("enter temp in fahrenheit");
        f =in.nextDouble();
        convert =(((5*f)/9) - 32);
        System.out.println("Temperature in celcius is "+convert +"
degree");
    }

}

```

```

#11
import java.util.Scanner;

public class program11 {

```

```

public static void main(String[] args) {
    // TODO Auto-generated method stub
    Scanner in =new Scanner(System.in);
    double length,breadth,radius,area1,area2,peril,peri2;
    double pi =3.14;
    System.out.println("enter length and breadth of rectangle");
    length =in.nextDouble();
    breadth =in.nextDouble();
    System.out.println("enter radius of circle");
    radius =in.nextDouble();
    area1 = (length*breadth);
    peril = (2*(length+breadth));
    area2 = (pi*radius*radius);
    peri2 = (2*pi*radius);
    System.out.println("Area of rectangle is "+area1);
    System.out.println("Perimeter of rectangle is "+peril);
    System.out.println("Area of circle is "+area2);
    System.out.println("Area of circle is "+peri2);
}
}

```

#12

```
import java.util.Scanner;
```

```

public class program12 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        double den[] ={1,0.5,0.25};
        int i;
        System.out.println("enter amount");
        double amt =in.nextDouble();
        double copy =amt;
        double notes =0,ctr =0;
        System.out.println("\nDENOMINATIONS: \n");
        for(i=0;i<3;i++)
        {
            ctr =amt/den[i];
            if (ctr !=0)
            {
                System.out.println(den[i]+"\\tx\\t"+ctr+"\\t
="+den[i]*ctr);
            }
            notes =notes+ctr;
            amt =amt%den[i];
        }
        System.out.println("TOTAL\\t\\t\\t= "+copy);
        System.out.println("Total no. of notes =" +notes);
    }
}

```

```

    }

}

#13

import java.util.Scanner;

public class program13 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int n,gross,doz,left1,left2;
        System.out.println("enter no. of egg");
        n =in.nextInt();
        gross = n/144;
        left1 =n%144;
        doz =left1/12;
        left2 =left1%12;

        System.out.println("your no. of eggs is "+gross +"gross"+doz
+"dozen"+"and"+left2 +"left over");
    }
}

```

```

-----
-----
#1
import java.util.*;
public class proglass3
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        double ht;
        System.out.println("enter height");
        ht =in.nextDouble();
        if(ht>=6)
        {
            System.out.println("the person is tall");
        }
        else
        {
            System.out.println("the person is not tall");
        }
    }
}

```

#2

```
import java.util.*;
public class prog2ass3 {

    public static void main(String[] args)
        // TODO Auto-generated method stub
        {
            Scanner in= new Scanner(System.in);
            int marks;
            System.out.println("enter marks");
            marks =in.nextInt();
            if(marks>=40&&marks<=100)
            {
                System.out.println("you have passed in the exam");
            }
            else
            {
                System.out.println("failed in exam sorry");
            }

        }
}
```

#3

```
import java.util.Scanner;
public class prog3ass3 {

    public static void main(String[] args)
        // TODO Auto-generated method stub
        {
            Scanner in= new Scanner(System.in);
            int n;
            System.out.println("enter number");
            n =in.nextInt();
            if(n%2==0)
            {
                System.out.println("even number");
            }
            else
            {
                System.out.println("odd number");
            }

        }
}
```

#4


```

import java.util.Scanner;
public class prog4ass3 {

    public static void main(String[] args)
        // TODO Auto-generated method stub
        {
            Scanner in= new Scanner(System.in);
            char ch;
            System.out.println("enter character");
            ch =in.next().charAt(0);
            if(ch>=65&&ch<=90)
            {
                System.out.println("capital character");
            }
            else if(ch>=97&&ch<=122)
            {
                System.out.println("small character");
            }
            else if(ch>=48&&ch<=57)
            {
                System.out.println("numbers");
            }
            else
            if((ch>=0&&ch<=47)|| (ch>=58&&ch<=64)|| (ch>=91&&ch<=96)|| (ch>=123&&ch<=127
            ))
            {
                System.out.println("symbol");
            }

        }
}

```

#5

```

import java.util.Scanner;
public class prog5ass3 {

    public static void main(String[] args)
        // TODO Auto-generated method stub
        {
            Scanner in= new Scanner(System.in);
            int x1,x2,x3,y1,y2,y3,s1,s2,s3;
            System.out.println("enter coordinate of 1st point");
            x1 =in.nextInt();
            y1 =in.nextInt();
            System.out.println(x1+", "+y1);
            System.out.println("enter coordinate of 2nd point");
            x2 =in.nextInt();
            y2 =in.nextInt();
            System.out.println(x2+", "+y2);
            System.out.println("enter coordinate of 3rd point");
            x3 =in.nextInt();
            y3 =in.nextInt();
            System.out.println(x3+", "+y3);
        }
}

```

```

        s1 =(y2-y1)/(x2-x1);
        s2 =(y3-y2)/(x3-x2);
        s3 =(y3-y1)/(x3-x1);
        if(s1==s2||s2==s3||s1==s3)
        {
            System.out.println("3 points are on st.line");
        }
        else
        {
            System.out.println("3 points are not on st.line");
        }
    }
}

```

#6

```

import java.util.Scanner;
public class prog6ass3 {

    public static void main(String[] args)
    // TODO Auto-generated method stub
    {
        Scanner in= new Scanner(System.in);
        int a1,a2,a3;
        System.out.println("enter ages");
        a1= in.nextInt();
        a2= in.nextInt();
        a3= in.nextInt();
        if(a1<a2&&a1<a3)
        {
            System.out.println("rahul is young");
        }
        if(a2<a1&&a2<a3)
        {
            System.out.println("ayush is young");
        }
        if(a3<a1&&a3<a2)
        {
            System.out.println("ajay is young");
        }
    }
}

```

#7

```

import java.util.*;
public class PROG7ASS3 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int x,y;
    }
}

```

```

        System.out.println("enter the coordinate");
        x =in.nextInt();
        y =in.nextInt();
        if(x>0&&y>0)
        {
            System.out.println("quadrant 1");
        }
        else if(x<0&&y>0)
        {
            System.out.println("quadrant 2");
        }
        else if(x<0&&y<0)
        {
            System.out.println("quadrant 3");
        }
        else
        {
            System.out.println("quadrant 4");
        }
    }
}

```

#8

```

import java.util.*;
public class prog8ass3 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in= new Scanner(System.in);
        double ht,wt,BMI;
        System.out.println("Enter the height and weight");
        ht =in.nextDouble();
        wt =in.nextDouble();
        BMI =(wt)/(ht*ht);
        if(BMI<18.5)
        {
            System.out.println("UNDERWEIGHT");
        }
        else if(BMI>=18.5&&BMI<25)
        {
            System.out.println("NORMAL WEIGHT");
        }
        else if(BMI>=25&&BMI<30)
        {
            System.out.println("OVERWEIGHT");
        }
        else if(BMI>=30)

```

```

{
    System.out.println("OBESE");
}
}

```

#9

```

import java.util.*;
public class prog9ass3 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in= new Scanner(System.in);
        int m;
        System.out.println("enter the marks");
        m =in.nextInt();
        switch(m/10)
        {
            case 10 : System.out.println("GRADE O");
                       break;
            case 9 : System.out.println("GRADE A");
                       break;
            case 8 : System.out.println("GRADE A");
                       break;
            case 7 : System.out.println("GRADE B");
                       break;
            case 6 : System.out.println("GRADE C");
                       break;
            case 5 : System.out.println("GRADE D");
                       break;
            case 4 : System.out.println("GRADE E");
                       break;
            case 3 : System.out.println("GRADE F");
                       break;
            case 2 : System.out.println("GRADE F");
                       break;
            case 1 : System.out.println("GRADE F");
                       break;
            case 0 : System.out.println("GRADE F");
                       break;
            default : System.out.println("WRONG CHOICE");
        }
    }

}

```

#10

```

import java.util.*;
public class prog10ass3 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int yy;
        System.out.println("ENTER THE YEAR");
        yy =in.nextInt();
        if(yy<1966)
        {
            System.out.println("O");
        }
        else if(yy>=1966&&yy<=1980)
        {
            System.out.println("generation X");
        }
        else if(yy>1980&&yy<=1999)
        {
            System.out.println("generation Y");
        }
        else if(yy>=2000&&yy<=2012)
        {
            System.out.println("generation Z");
        }
        else
        {
            System.out.println("K");
        }

    }

}

#11

import java.util.*;
public class PROG11ASS3 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        double s1,s2,s3;
        int c=0;
        System.out.println("ENTER SIDES OF TRIANGLE");
    }
}

```

```

        s1 =in.nextDouble();
        s2 =in.nextDouble();
        s3 =in.nextDouble();
        if(s1==s2||s2==s3||s1==s3)
        {
            c++;
        }
        if(c==0)
        {
            System.out.println("IRREGULAR");
        }
        else if(c==1)
        {
            System.out.println("symmetric");
        }
        else if(c>1)
        {
            System.out.println("REGULAR");
        }
    }
}

```

#12

```

import java.util.*;
public class PROG12ASS3 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        String n1=" ",n,malename,femalename;
        int maleage,femaleage;
        {
            System.out.println("WHAT IS YOUR GENDER? (PLEASE ANSWER IN M OR F)");
            n =in.next();
        }
        if(n=="M")
        {
            System.out.println("FIRST NAME :");
            malename =in.next();

            System.out.println("AGE :");
            maleage =in.nextInt();
            if(maleage>19)
            {
                System.out.println("Then I shall call you Mr."+malename);
            }
        }
    }
}

```

```

else
{
    System.out.println("Then I shall call you Ms."+malename);
}
}
else if(n=="F")
{
    System.out.println("FIRST NAME :");
    femalename =in.next();
    System.out.println("AGE :");
    femaleage =in.nextInt();
    if(femaleage>19)
    {
        System.out.println("Are you married, "+femalename+"(yes or
no)?");
        n1 =in.next();
    }
    if(n1=="yes")
    {
        System.out.println("Then I shall call you Mrs. "+femalename);
    }
    else if(n1=="no")
    {
        System.out.println("Then I shall call you Ms. "+femalename);
    }
}
}
}

-----
-----
#1
public class ass4prg1 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        {
            int n=1;
            while(n<=5)
            {
                System.out.println("welcome to iter");
                n++;
            }
        }
    }

}

#2
import java.util.Scanner;
public class ass4prg2 {

```

```

        public static void main(String[] args) {
            // TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
int n,i;
System.out.println("Count upto-");
n =in.nextInt();
for(i=0;i<=n;i++)
{
System.out.println(i+",");
}
}
}
#3

```

```

import java.util.Scanner;
public class ass4prg3 {

        public static void main(String[] args) {
            // TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
int n1,n2,n3,i;
System.out.println("Count from-");
System.out.println("Count to-");
System.out.println("Count by-");
n1 =in.nextInt();
n2 =in.nextInt();
n3 =in.nextInt();
for(i=n1;i<=n2;i=i+n3)
{
System.out.println(i+",");
}
}
}
#4

```

```

import java.util.Scanner;
public class prg4ass4 {

        public static void main(String[] args) {
            // TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
double i;

for(i=-2;i<=2;i=i+0.5)
{
    System.out.println(i);
}

}

}
#5

```



```

public class prg5ass4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a=1000,b=2000,i;
        for(i=a;i<=b;i++)
        {
            System.out.print(i+",");
            if(i%5==0)
                System.out.println();

        }
    }
}

```

#6

```

public class prg6ass4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i;
        for(i=0;i<=20;i=i+2)
        {
            System.out.print(i+" ");
        }
    }
}

```

#7

```

public class prg7ass4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i;
        for(i=1;i<=1000;i++)
        {
            if(i%3==0||i%5==0)
            {
                System.out.println(i+",");
            }
        }
    }
}

```

#8

```

import java.util.*;

```

```

public class prg8ass4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in=new Scanner(System.in);
        int i,n,a;
        System.out.println("enter the multiple");
        n =in.nextInt();
        for(i=1;i<=10;++i)
        {
            a =n*i;

            System.out.println(n+"*"+i+"="+a);
        }
    }
}

```

```

#9
import java.util.*;
public class prg9ass4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int i,j;
        double s =0.0,s2=0.0,diff,sq;
        for(i=1;i<=100;i++)
        {
            s =s+(i*i);
        }
        for(j=1;j<=100;j++)
        {
            s2 =s2+j;
        }
        sq =s2*s2;
        diff =sq-s;
        System.out.println("difference "+diff);
    }
}

```

```

#10

public class ass4prg10 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i,j;
        for(i=1;i<=5;i++)
        {

```

```

        System.out.print(i);
    }
    for(j=4;j>=1;j--)
    {
        System.out.print(j);
    }
}
}

```

#11

```

import java.util.*;
public class ass4prg11 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int i,n;
        double s=0.0,avg;
        System.out.println("enter the number");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            System.out.println(Math.Random());
            s =s+Math.Random();
        }
        avg =s/n;
        System.out.println("average "+avg);
    }
}

```

#12import java.util.*;
public class ass4prg11 {

```

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int i,n,d,x;
        double s=0.0;
        System.out.println("enter the number");
        n =in.nextInt();
        x =n;
        while(x>0)
        {
            d =x%10;
            s =s+d;

```

```

        x =x/10;
        System.out.println(d);
    }
    if(s%9 ==0)
    {
        System.out.println("no. is divisible by 9");
    }
    else
    {
        System.out.println("no. is not divisible by 9");
    }
}

}

#13

```

```

public class ass4prg12 {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=1;
        while(n<=5)
        {
            System.out.println("*****");
            n++;
        }
    }

}

```

```

#14a
public class ass4prg14a {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i,j;
        for(i=1; i<=6; i++)
        {
            for(j=1; j<i; j++)
            {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

```

    }
}

#14b

public class ass4prg14b {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        for(int i=1; i<=5; i++) {

            for(int j=1; j<=i;j++) {

                System.out.print(j);
            }

            System.out.println();
        }

    }
}

```

```

#14c
public class ass4prg14b {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        for(int i=1; i<=5; i++) {

            for(int j=1; j<=i;j++) {

                System.out.print(" "+i+" ");
            }

            System.out.println();
        }

    }
}

```

#14d

```

public class ass4prgl4d {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n = 1;
        for (int i = 1; i <= 5; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.print(n+ " ");
                n++;
            }

            System.out.println();

        }
    }
}

```

```

#1
import java.util.*;
public class ass5prg1 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner in =new Scanner(System.in);
        int a,b,c,d;
        System.out.println("enter a b c");
        a =in.nextInt();
        b =in.nextInt();
        c =in.nextInt();
        d =a;
        a =b;
        b =c;
        c =d;
        System.out.println(a);
        System.out.println(b);
        System.out.println(c);

    }
}
#2

```

```

import java.util.Scanner;
public class ass5prg2 {

```

```

        public static void main(String[] args) {
            // TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
int a,b,c;
System.out.println("enter a b c");
a =in.nextInt();
b =in.nextInt();
c =in.nextInt();
a =a+b+c;
b =a-b-c;
c =a-b-c;
a =a-b-c;
System.out.println(a);
System.out.println(b);
System.out.println(c);

```

```

        }
    }
}
#3
import java.util.Scanner;
public class ass5prg3 {

```

```

        public static void main(String[] args) {
            // TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
int d,e,a,b,c;
System.out.println("enter a b c d");
a =in.nextInt();
b =in.nextInt();
c =in.nextInt();
d =in.nextInt();
e =a;
a =b;
b =c;
c =d;
d =e;
System.out.println(a);
System.out.println(b);
System.out.println(c);
System.out.println(d);

```

```

        }
    }
}
#4
import java.util.Scanner;
public class ass5prg4 {

```

```

        public static void main(String[] args) {
            // TODO Auto-generated method stub
Scanner in =new Scanner(System.in);
int i,c=0,m,n;
System.out.println("enter n");

```

```

n =in.nextInt();
for(i=1;i<=n;i++)
{
System.out.println("enter marks");
m =in.nextInt();
if(m>=40)
{
c++;
}
}
System.out.println("counts is "+c);
}
}
#5 no need of doing it
#6
import java.util.*;
class prg6ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,c=0,num;
        System.out.println("enter a no.");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            System.out.println("enter a number");
            num =in.nextInt();
            if(num>0)
            {
                c++;
            }
        }
        System.out.println("number of positive number =" +c);
        System.out.println("number of negative number =" +(n-c));
    }
}

#7
import java.util.*;
class prg7ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,num;
        double s =0.0,avg=0.0;
        System.out.println("enter a no.");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            System.out.println("enter a number");
            num =in.nextInt();
            {

```



```

        s =s+num;
    }
}
avg =s/n;
System.out.print("sum is "+s);
System.out.print("average is "+avg);
}
}

```

```

#8
import java.util.*;
class prg8ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,num;
        double sq =0.0,s =0.0;
        System.out.println("enter how many nos");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            System.out.println("enter no. one by 1");
            num =in.nextInt();
            sq= num*num;
            s =s+sq;
        }

        System.out.println("sum is "+s);
    }
}

```

```

#9
import java.util.*;
class prg9ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,num;
        double s =0.0,hm =0;
        System.out.println("enter a no.");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            System.out.println("enter number");
            num =in.nextInt();
            s =s+(1/num);
            hm =n/s;
        }
        System.out.print("HARMONIC="+hm);
    }
}

```

```

#10
import java.util.*;
class prgl0ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i;
        double m=0;
        System.out.println("enter no of terms");
        n =in.nextInt();
        for(i=0;i<=n; )
        {
            m =Math.pow(2,i);
            System.out.println(m+" ");
            i++;
        }
    }
}

#11
import java.util.*;
class prgl1ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,term =0;
        System.out.println("enter the no. of term");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            if(i%2==0)
            {
                term =1;
            }
            else
            {
                term =-1;
            }
            System.out.print(term+" ");
        }
    }
}

#12

import java.util.*;
class prgl2ass5
{

```

```

public static void main(String args[])
{
    Scanner in =new Scanner(System.in);
    int n,i;
    double m =0.0,s =0.0;
    System.out.println("enter the no. of term");
    n =in.nextInt();
    for(i=0;i<=n;i++)
    {
        m =Math.pow(-1,i)*((2*i)+1);
        s =s+m;
    }

    System.out.println(s);
}
}

```

#13

```

import java.util.*;
class prgl3ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,p=1;
        System.out.println("enter the no. for factorial");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            p =p*i;
        }
        System.out.println("Factorial is "+p);
    }
}

```

#14

```

import java.util.*;
class prgl4ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i;
        double p= 1.0;
        System.out.println("enter the no. for factorial");
        n =in.nextInt();
        for(i=1;i<=n;i++)
        {
            p =p*(i);
        }
    }
}

```

```

        }
        System.out.println("Factorial is "+(1/p));
    }
}

#15
import java.util.*;
class prgl5ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int x,n,i;
        double p= 1.0;
        System.out.println("enter the no. for factorial");
        n =in.nextInt();
        System.out.println("enter value of x");
        x =in.nextInt();
        for(i=1;i<=n;i++)
        {
            p =p*(i);
        }
        System.out.println("Value is "+((Math.pow(x,n)/p)));
    }
}

```

```

#16
import java.util.*;
class prgl6ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i=1,f=1;
        System.out.println("Enter the number");
        n =in.nextInt();
        while(f<n)
        {
            f =f*i;
            i++;
        }
        if(f==n)
        {
            System.out.println("factorial");
        }
        else
        {
            System.out.println("not factorial");
        }
    }
}

```

#17 no answer

#18

```
import java.util.*;
```

```

class prgl8ass5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int a,b,i=1,f=1,mul =0,p=0;
        System.out.println("Enter the numbers");
        a =in.nextInt();
        b =in.nextInt();
        if(a>0)
        {
            for(i=0;i<a;i++)
            {
                mul +=b;
            }
        }
        else
        {
            for(i=0;i>a;i--)
            {
                mul -=b;
            }
        }
        p =a*b;
        System.out.println("prod "+p);
        System.out.println("multi "+mul);
    }
}

```

#1

```

class ass6prgl
{
    public static void main(String args[])
    {
        double x= 3;
        x =Math.toRadians(x);
        double term =x;
        double tsin =x;
        int i= 1;
        while(term>0.000001)
        {
            i =i+2;
            term = -term*((x*x)/(i*(i-1)));
            tsin =term+tsin;
        }
        System.out.println(tsin);
    }
}

```

```

#2
import java.util.*;
class ass6prg2
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int i,p=1,n;
        double s =0.0;
        System.out.println("Enter a number");
        n =in.nextInt();
        if(n>0)
        {
            for(i=1;i<=n;i++)
            {
                p =p*i;
                s =s+p;
            }
        }
        System.out.println("sum "+s);
    }
}

```

```

#3
import java.util.*;
class ass6prg3
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int i,p=1,n;
        double s =1.0;
        System.out.println("Enter a number");
        n =in.nextInt();
        if(n>0)
        {
            for(i=1;i<n;i++)
            {
                p =p*i;
                s =s+(1/p)+1;
            }
        }
        System.out.println("e = "+s);
    }
}

```

#4

```
class ass6prg4
{
    public static void main(String args[])
    {
        double x= 30;
        x =Math.toRadians(x);
        double term =1;
        double tcos =1;
        int i= 0;
        while(term>0.000001)
        {
            i =i+2;
            term = -term*((x*x)/(i*(i-1)));
            tcos =term+tcos;
        }
        System.out.println(tcos);
    }
}
```

#5

```
import java.util.*;
class ass6prg5
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int a =0,b =1,c,n,i;
        System.out.println("enter the no.");
        n =in.nextInt();
        System.out.print(a+", "+b);
        for(i=1;i<=(n-2);i++)
        {
            c =a+b;
            System.out.print(", "+c);
            a =b;
            b =c;
        }
    }
}
```

#6

```
import java.util.*;
class ass6prg6
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int a =0,b =1,n,i=1;
        System.out.println("enter the no.");
        n =in.nextInt();
        System.out.print(a+", "+b);
```

```

        while(i<(n-2))
        {
            a =a+b;
            b =a+b;
            i =i+2;
            System.out.print(", "+a+", "+b);
        }
    }
}

```

```

#7
import java.util.*;
class ass6prg7
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int a =1,b =3,c,n,i;
        System.out.println("enter the no.");
        n =in.nextInt();
        System.out.print(a+", "+b);
        for(i=1;i<=n;i++)
        {
            c =a+b;
            System.out.print(", "+c);
            a =b;
            b =c;
        }
    }
}

```

```

#8
import java.util.*;
class ass6prg8
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int a =0,b =1,c=1,d,n,i;
        System.out.println("enter the no.");
        n =in.nextInt();
        System.out.print(a+", "+b+", "+c);
        for(i=1;i<=(n-3);i++)
        {
            d =a+b+c;
            System.out.print(", "+d);
            a =b;
            b =c;
            c =d;
        }
    }
}

```

#9


```

import java.util.*;
class ass6prg9
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);

        System.out.print("Enter a number");
        int n =in.nextInt();
        int n1 =in.nextInt();
        if(n<0)
            System.out.println("Kindly enter a positive number");
        else
        {
            int a=0, b=1 ,c=0;
            while(c<n)
            {
                c = a + b;
                a = b;
                b = c;
            }
            if((c==n)&&(c+b!=n1))
                System.out.println("The number belongs to Fibonacci
Series.");
            else
                System.out.println("The number does not belong to Fibonacci
Series.");
        }
    }
}

```

```

#10
import java.util.*;
class ass6prg10
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i,j,p1=1,p2=1,zf=0;
        double s =0.0,s1 =0;
        System.out.println("Enter a number");
        n =in.nextInt();
        for(i=1;i<=(n-2);i++)
        {
            p1 =p1*i;
        }
        if((n-3)==zf)
        {
            s1 =1.0;
            s =s+s1+p1;
        }
        else
        {
            for(j=1;j<=(n-3);j++)
            {

```

```

        p2 =p2*j;
    }
    s =s+p1+p2;
}

System.out.println("sum factorial is "+s);
}
}

```

#11

```

import java.util.*;
class ass6prg11
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,d,rev=0;
        System.out.println("Enter a number");
        n =in.nextInt();
        while(n>0)
        {
            d =n%10;
            rev =rev*10+d;
            n =n/10;
        }
        System.out.println("reverse is "+rev);
    }
}

```

#12

```

import java.util.*;
class ass6prg12
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,d,c=0;

        System.out.println("Enter a number");
        n =in.nextInt();
        while(n>0)
        {
            d =n%10;
            c++;
            n =n/10;
        }
        System.out.println("count is "+c);
    }
}

```

#13

```

import java.util.*;
class ass6prg13
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,d;
        double s= 0.0;
        System.out.println("Enter a number");
        n =in.nextInt();
        while(n>0)
        {
            d =n%10;
            s =s+d;
            n =n/10;
        }
        System.out.println("sum is "+s);
    }
}

```

#14

```

import java.util.*;
class ass6prg14
{
    public static void main(String args[])
    {
        Scanner in =new Scanner(System.in);
        int n,i;
        System.out.println("enter n");
        n =in.nextInt();
        int a[] =new int[n];
        for(i=0;i<n;i++)
        {
            System.out.println("enter the values");
            a[i] =in.nextInt();
        }
        for(i=0;i<5;i++)
        {
            System.out.print(a[i]);
        }
    }
}

```

