

### Answer 1

```
import java.util.Scanner;
public class q1 {

    public static void main(String[] args)
    {
        int x,y;
        Scanner z=new Scanner(System.in);
        System.out.print("Enter x : ");
        x=z.nextInt();
        System.out.print("Enter y : ");
        y=z.nextInt();
        x=x^y^(y=x);
        System.out.print("After Swpping x is "+x+" and y is "+y);
    }
}
```

### Answer 2

```
import java.util.Scanner;
public class q2 {

    public static void main(String[] args)
    {
        int x,y;
        Scanner z=new Scanner(System.in);
        System.out.print("Enter x: ");
        x=z.nextInt();
        System.out.print("Enter y: ");
        y=z.nextInt();
        x=x^y;
        y=x^y;
        x=x^y;
        System.out.println("After swapping x is "+x+" and y is "+y);
    }
}
```

### Answer 3

```
import java.util.Scanner;
public class q3
{
    public static void main(String[] args)
    {
        int a,b;
        Scanner s=new Scanner(System.in);
        System.out.print("enter a= ");
        a=s.nextInt();
        System.out.print("enter b= ");
        b=s.nextInt();
        int x=b>>1;
        int y=a>>1;
    }
}
```

```

        int sum=x+y;
        System.out.println(sum);

    }

}

```

Answer 4

```

import java.util.Scanner;
public class q4 {

    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("enter the character = ");
        char z=s.next().charAt(0);
        int ascii=z;
        System.out.print(ascii);

    }

}

```

Answer 5

```

public class q5 {

    public static void main(String[] args) {

        System.out.print(Integer.SIZE/8);

    }

}

```

Answer 6

```

import java.util.Scanner;
public class q6
{

    public static void main(String[] args)
    {
        double q;
        Scanner s=new Scanner(System.in);
        System.out.print("Enter the amount of water in kg: ");
        double x=s.nextDouble();
        System.out.print("Enter the initial temperature of water in
degree celcius: ");
        double y=s.nextDouble();
        System.out.print("Enter the final temperature of water in degree
celcius: ");
        double z=s.nextDouble();
        q=x*(z-y)*4184;
    }
}

```

```

        System.out.print(q+"joule");

    }

}

```

Answer 7

```

import java.util.Scanner;
public class q7
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the year = ");
        int y=s.nextInt();
        String z=y%4==0 ? y%100!=0||y%400==0? "leap year":"not a leap
year":"not a leap year";
        System.out.println(z);
    }

}

```

Answer 8

```

import java.util.Scanner;
public class q8 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the distance in miles = ");
        int miles=s.nextInt();
        System.out.print("enter the fuel efficiency of car = ");
        int g=s.nextInt();
        System.out.print("enter the price per gaalon = ");
        int p=s.nextInt();
        g=miles/g;
        p=g*p;
        System.out.println("Cost of trip= "+p);
    }

}

```

Answer 9

```

import java.util.Scanner;
public class q9
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the balance = ");
        int b=s.nextInt();
        System.out.print("enter the anual interest rate = ");
    }
}

```

```

        int a=s.nextInt();
        int i=b*(a/1200);
        System.out.print("intrest for the next month : "+i);

    }

}

```

Answer 10

```

public class q10 {

    public static void main(String[] args) {
        System.out.print(1+2+3+4+5+6+7+8+9);
    }

}

```

Answer 11

```

import java.util.Scanner;
public class q11 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.println("enter the no: ");
        int n=s.nextInt();
        boolean t=(n&1)==n;
        System.out.print(t);

    }

}

```

Answer 12

```

import java.util.Scanner;
public class q12 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.println("enter the no: ");
        int n=s.nextInt();
        boolean t=(n/2)*2==n;
        System.out.print(t);

    }

}

```

Answer 13

```

import java.util.Scanner;
public class q13 {

```

```

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter dob = ");
        int d=s.nextInt();
        int m=s.nextInt();
        int y=s.nextInt();
        System.out.print("input current date =");
        int dd=s.nextInt();
        int mm=s.nextInt();
        int yy=s.nextInt();
        int ddd=d-dd;
        int mmm=m-mm;
        int yyy=yy-y;
        System.out.println("current age="+ddd+" days "+mmm+" month
"+yyy+" year ");
    }
}

```

Answer 14

```

import java.util.Scanner;

public class q14 {

    public static void main(String[] args) {
        Scanner z=new Scanner(System.in);
        System.out.print("enter the speed of train :");
        int s=z.nextInt();
        double tlength=11;
        double blength=12;
        double t=(blength/tlength)/s;

        System.out.println("time taken= "+t+"s");
    }
}

```

Answer 15

```

import java.util.Scanner;
public class q15 {

    public static void main(String[] args) {
        double d1,d2;
        Scanner s=new Scanner(System.in);
        System.out.print("enter the nos of days taken by a : ");
        d1=s.nextDouble();
        System.out.print("enter the nos of days taken by b: ");
        d2=s.nextDouble();
        double z=(d1+d2)/2;
        System.out.print("nos of days taken by both : "+z);
    }
}

```

```
}
```

Answer 16

```
import java.util.Scanner;
public class q16
{
    public static void main(String[] args)
    {
        double h,r;
        Scanner s=new Scanner(System.in);
        System.out.print("enter radius= ");
        r=s.nextDouble();
        System.out.print("enter height= ");
        h=s.nextDouble();
        double vc=(3.14*r*r*h);
        double csa=(2*3.14*r*h);
        double tsa=2*3.14*r*(h+r);
        System.out.println("volume of cylindeer = "+vc);
        System.out.println("curved surface area of cylinder = "+csa);
        System.out.println("total surface area of cylinder = "+tsa);
    }
}
```

Answer 17

```
import java.util.Scanner;
public class q17 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter x= ");
        int x=s.nextInt();
        System.out.print("enter y = ");
        int y=s.nextInt();
        int n=(int)Math.pow(x,y);
        int a=n%10;
        int b=(n/10)%10;
        int c=(n/100)%10;
        int d=a+b+c;
        System.out.println("power = "+n);
        System.out.println("sum of digits = "+d);
    }

}
```

Answer 18

```
import java.util.Scanner;
public class q18
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
```

```

        System.out.print("Enter your name :");
        String name=s.next();
        int n=(int) (1000+Math.random()*(9999-1000));
        char c=name.charAt(0);
        System.out.print("your pass key is "+ " "+c+n);

    }

}

```

Answer 19

```

import java.util.Scanner;
public class q19 {

    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.print("enter a no =");
        int n=s.nextInt();
        String z=Math.sqrt(n)%1==0 ? "peerfect square":"not perfect
square";

        System.out.println(z);

    }

}

```

Answer 20

```

import java.util.*;

public class q20
{
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter a no= ");
        int a=s.nextInt();
        String z =(Math.sqrt(5*a*a+4)%1==0||Math.sqrt(5*a*a-4)%1==0)
?"true":"false";
        System.out.println(z);
    }

}

```

Answer 21

```

import java.util.Scanner;
public class q21 {

    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the sides of triangle = " );
        int a=s.nextInt();
        int b=s.nextInt();
    }

}

```

```

        int c=s.nextInt();
        String valid=a+b>c ? "triangle possible" : a+c>b ? "triangle
possible": b+c>a ? "triangle possible" : "not possible";

        System.out.print(valid);

    }

}

```

Answer 22

```

import java.util.Scanner;

public class q22 {

    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the angle of quadrilateral =" );
        int a=s.nextInt();
        int b=s.nextInt();
        int c=s.nextInt();
        int d=s.nextInt();
        String valid=a+b+c+d==360 ? "possible" : "not possible";
        System.out.print(valid);

    }

}

```

Answer 23

```

import java.util.Scanner;
public class q23 {

    public static void main(String[] args)
    {
        int n;
        Scanner s= new Scanner(System.in);
        System.out.print("enter four digit =");
        int a=s.nextInt();
        int b=s.nextInt();
        int c=s.nextInt();
        int d=s.nextInt();

        System.out.print(a+" "+b+" "+c+" "+d);

    }

}

```



#### Answer 24

```
import java.util.Scanner;
public class q24 {

    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.print("enter a three digit no = ");
        int n=s.nextInt();
        int a=n%10;
        int b=(n/10)%10;
        int c=(n/100)%10;
        System.out.print("Cubes of digits = "+(Math.pow(a,3)+Math.pow(b,
3)+Math.pow(c, 3)));
    }

}
```

#### Answer 25

```
import java.util.Scanner;
public class q25
{
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the unit consumed=");
        int n=s.nextInt();
        int z= n==100||n>100?6:5;
        System.out.print(z*n);
    }

}
```

#### Answer 26

```
import java.util.*;
public class q26 {

    public static void main(String[] args) {
        String upper,lower;
        Scanner s=new Scanner(System.in);
        System.out.print("enter a word = ");
        lower=s.next();
        upper=lower.toUpperCase();
        System.out.print(upper);
    }

}
```

#### Answer 27

```
import java.util.Scanner;
public class q27 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter a no = ");
        int a=s.nextInt();
        boolean t=a%2==0;
        System.out.println(t);
    }

}
```

#### Answer 28

```
import java.util.Scanner;
public class q28
{
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter a no b/w 0 to 15= ");
        int x=s.nextInt();
        int bit=x^1;
        System.out.println(bit);
    }

}
```

#### Answer 29

```
import java.util.*;
public class q29 {

    public static void main(String[] args) {
        int num;
        Scanner s= new Scanner(System.in);
        System.out.print("enter a no = ");
        num=s.nextInt();
        int bit=2^5;
        String h=(num&bit)==1 ? "on":"of";
        System.out.print(h);
    }

}
```

Answer 30

```
public class q30 {

    public static void main(String[] args) {
        int x=6,y=3,z=9;
        int a=(x>y) ?
            (x>z ? x : z) :
            (y>z ? y : z);
        System.out.println(a);

    }

}
```

Answer 32

```
import java.util.*;
public class q32 {

    public static void main(String[] args) {
        int n,a;
        Scanner s=new Scanner(System.in);
        System.out.print("enter a no = ");
        n=s.nextInt();
        System.out.print("enter the nth place = ");
        a=s.nextInt();
        if(n==n%10)
        {

            a=6;

        }
        if(n==(n/10)%10)
        {

            a=5;

        }
        if(n==(n/100)%10)
        {

            a=4;

        }
        if(n==(n/1000)%10)
        {

            a=3;

        }
        if(n==(n/10000)%10)
        {

            a=2;

        }
        if(n==(n/100000)%10)
        {


```

```

        a=1;
    }

    System.out.print(a);

}
}

```

### Answer 33

```

import java.util.*;
public class q33
{
    public static void main(String[] args) {
        double l,b;
        Scanner s=new Scanner(System.in);
        System.out.print("enter the length = ");
        l=s.nextDouble();
        System.out.print("enter the bredth = ");
        b=s.nextDouble();
        double area=l*b;
        double perimeter=2*(l+b);
        System.out.println("area of rectangle = "+area);
        System.out.print("perimetre of rectalgle = "+perimetre);
    }
}

```

### Answer 34

```

import java.util.Scanner;
public class q34 {

    public static void main(String[] args) {
        int p;
        Scanner z=new Scanner(System.in);
        System.out.print("enter an integer = ");
        p=z.nextInt();
        String s=p<0?"negative":"positive";
        System.out.println(s);
    }

}

```

### Answer 35

Read the question carefully question 35 is a wrong question

### Answer 36

```

import java.util.*;

```

```

public class q36 {
    public static void main(String[] args) {
        double a,b,c;
        Scanner s=new Scanner(System.in);
        System.out.print("enter the marks of Ajay = ");
        a=s.nextDouble();
        System.out.print("enter the marks of Ayush = ");
        b=s.nextDouble();
        System.out.print("enter the marks if Rahul = ");
        c=s.nextDouble();
        double d=a>b?b>c?c>a?c:a:b:c;
        System.out.print("highest marks = "+d);
    }
}

```

Answer 37

```

import java.util.*;
public class q37 {

    public static void main(String[] args) {

        Scanner s=new Scanner(System.in);
        System.out.print("Enter a no = ");
        int n=s.nextInt();
        int a=n%10;
        int b=(n/10)%10;
        int c=(n/100)%10;
        int x=c;
        int y=b;
        int z=a;
        System.out.print(+z+" "+y+" "+x);

    }

}

```

Answer 38

```

import java.util.*;
public class q38 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("Input = ");
        int n=s.nextInt();
        int a=n%10;
        int b=(n/10)%10;
        int c=(n/100)%10;
        int d=(n/1000)%10;
        int x=c;
        int y=b;
        int z=a;
        int p=d;
        System.out.print("output =" +z+" "+y+" "+x+" "+p);

    }

}

```

```
}
```

Answer 39

```
import java.util.*;
public class q39 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter a = ");
        int a=s.nextInt();
        System.out.print("enter b = ");
        int b=s.nextInt();
        System.out.print("enter m = ");
        int m=s.nextInt();
        boolean d=Math.pow(a,m)+Math.pow(b,m)==Math.pow((a+b),m);
        System.out.println(d);
    }

}
```

Answer 40

```
import java.util.*;
public class q40 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter height in inches = ");
        int i=s.nextInt();
        int a=i/12;
        int b=i%12;

        System.out.println(a+" feet "+b+" inch");
    }

}
```

Answer 41

```
import java.util.Scanner;
public class q41 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the value of x = ");
        double x=s.nextDouble();
        double a=3/4*Math.cos(x)+1/4*Math.cos(3*x);
        double b=3/4*Math.sin(x)-1/4*Math.sin(3*x);
        System.out.println(a);

        System.out.println(b);
    }

}
```

Answer 42

```

import java.util.Scanner;
public class q42 {

    public static void main(String[] args) {
        int a,n2000=0,n500=0,n100=0,n200=0;
        Scanner s=new Scanner(System.in);
        System.out.print("Enter the amount = ");
        a=s.nextInt();
        if(a>=2000)
        {
            n2000=a/2000;
            a=a-(n2000*2000);

        }
        if (a>=500)
        {
            a=a-500/500;
            n500=a/500;
            a=a-(n500*500);
        }
        if (a>=200)
        {
            a=a-200/200;
            n200=a/200;
            a=a-(n200*200);
        }
        if(a>=100)
        {
            a=a-100/100;
            n100=a/100;
            a=a-(n100*100);
        }
        System.out.println("no of 2000 notes = "+n2000);
        System.out.println("no of 500 notes = "+n500);
        System.out.println("no of 200 notes = "+n200);
        System.out.println("no of 100 notes = "+n100);
    }
}

```

Answer 43

```

import java.util.*;
public class q43
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the number = ");
        int a=s.nextInt();
        int c=0;
        for (int i=1;i<=a;i++)
        {
            if (a%i == 0)

```

```

        c++;
    }
    if (c == 2)
        System.out.println ("Prime number");
    else
        System.out.println("Not a prime Number");
}
}

```

Answer 44

```

import java.util.Scanner;
public class q44
{
    public static void main(String[] args)
    {
        Scanner S = new Scanner (System.in);
        System.out.println("Enter a number ");
        int a,i,d,c=0,b=0,e=0,f=0,g=0,h=0,j=0,k=0,l=0,m=0,n=0;
        a = S.nextInt();
        for (;a!=0;a/=10)
        {
            d = a%10;
            if (d==0)
                c++;
            if (d==1)
                e++;
            if (d==2)
                f++;
            if (d==3)
                g++;
            if (d==4)
                h++;
            if (d==5)
                j++;
            if (d==6)
                k++;
            if (d==7)
                l++;
            if (d==8)
                m++;
            if (d==9)
                n++;
        }
        System.out.println("Number of 0 =" +c);
        System.out.println("Number of 1 =" +e);
        System.out.println("Number of 2 =" +f);
        System.out.println("Number of 3 =" +g);
        System.out.println("Number of 4 =" +h);
        System.out.println("Number of 5 =" +j);
        System.out.println("Number of 6 =" +k);
        System.out.println("Number of 7 =" +l);
        System.out.println("Number of 8 =" +m);
        System.out.println("Number of 9 =" +n);
    }
}

```



```
}
```

Answer 45

```
import java.util.*;
public class q45 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("Enter a positive no = ");
        int z=s.nextInt();
        boolean x=z%2==0;
        System.out.print(x);

    }

}
```

Answer 46

```
import java.util.*;
public class q46 {
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("enter the side=");
        double z=s.nextDouble();
        double a=Math.sqrt(3)*z*z/4;
        System.out.print("area= "+a);

    }

}
```

Answer 47

```
public class q47{

    public static void main(String[] args) {
        int p=Integer.parseInt(args[0]);
        System.out.print("Enter a positive no = ");
        boolean x=p%2==0;
        System.out.print(x);

    }

}
```

Answer 48

```
import java.util.Scanner;
public class q48 {

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

```

        Scanner s=new Scanner(System.in);
        System.out.print("enter first no = ");
        int a=s.nextInt();
        System.out.print("enter second no = ");
        int b=s.nextInt();
        int z=a-b*(a/b);
        System.out.print (z);
    }

}

```

Answer 50

```

import java.util.*;
public class q50 {
    public static void main(String[] args) {
        double a,b,c,d;
        Scanner s=new Scanner(System.in);
        System.out.print("enter the 1st no = ");
        a=s.nextDouble();
        System.out.print("enter the 2nd no = ");
        b=s.nextDouble();
        System.out.print("enter the 3rd no = ");
        c=s.nextDouble();
        System.out.print("enter the 4th no = ");
        d=s.nextDouble();

        double e=a>b?b>c?c>d?d>a?d:a:b:c:d;
        System.out.print("largest no = "+e);
    }

}

```

Answer 51

```

import java.util.Scanner;
public class q51 {

    public static void main(String[] args) {
        int a,b,c;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the the Sides of triangle = ");
        a=s.nextInt();
        b=s.nextInt();
        c=s.nextInt();
        String d=a+b>c?b+c>a?c+a>b?"not possible":"not possible":"not
possible":"possible" ;
        System.out.print(d);
    }

}

```

Answer 59

```

import java.util.Scanner;
public class q59 {

    public static void main(String[] args) {
        double d,m,mi,se,me,si,sp;

```

```

        Scanner s=new Scanner(System.in);
        System.out.print("Enter the the Distance in km = ");
        d=s.nextDouble();
        System.out.print("Enter the the time in minutes and second = ");
        mi=s.nextDouble();

        se=s.nextDouble();
        m=d/1.6;
        me=mi/60;
        si=se/60*60;
        sp=m/(me+si);
        System.out.print(sp);
    }
}

```

Answer 60

```

import java.util.*;
public class q60 {

    public static void main(String[] args) {
        int n,a,b,c,d,e,f;
        Scanner s=new Scanner (System.in);
        System.out.print("enter a no=");
        n=s.nextInt();
        a=n%10;
        b=(n/10)%10;
        c=(n/100)%10;
        d=(n/1000)%10;
        e=(n/10000)%10;
        f=(n/100000)%10;
        System.out.println(f+" "+e+" "+d+" "+c+" "+b+" "+a);
    }

}

```

Answer 62

```

import java.util.*;
public class q62 {

    public static void main(String[] args) {
        int y0,x,m0,d0,m,d,y;
        Scanner s=new Scanner(System.in);
        System.out.print("entere the date = ");
        d=s.nextInt();
        m=s.nextInt();
        y=s.nextInt();
        y0=y-(14-m)/12;
        x=y0+y0/4-y0/100+y0/400;
        m0=m+12*((14-m)/12)-2;
        d0=(d+x+(31*m0)/12)%7;
    }
}

```

```

        String
j=d0==1?"monday":d0==2?"tuesday":d0==3?"wednesday":d0==4?"thrusday":d0==5?"fr
iday":d0==6?"saturday":d0==0?"sunday":"error";
        System.out.println(j);
    }

}

```

Answer 63

```

import java.util.*;
public class q63 {

    public static void main(String[] args) {
        int n,a,b,c,d,e,f,g,h,i,j,k;
        Scanner s=new Scanner(System.in);
        System.out.print("Enter three no = ");
        n=s.nextInt();
        a=s.nextInt();
        b=s.nextInt();
        c=n%10;
        d=(n/10)%10;
        f=n%10;
        g=(n/10)%10;
        i=n%10;
        j=(n/10)%10;
        String l=c==f?"true":f==i?"true":"false";
        System.out.print(l);
    }

}

```

Answer 64

```

import java.util.*;
public class q64 {

    public static void main(String[] args) {
        int a;
        Scanner s=new Scanner(System.in);
        System.out.print("Enter marks of the student = ");
        a=s.nextInt();
        String b=a>=40?"pass":"fail";
        System.out.print(b);
    }

}

```

Answer 65

```

import java.util.*;
public class q65 {
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);

```

```

        System.out.print("enter the no = ");
        int n=s.nextInt();
        String b=n%2==0?"even":"odd";
        System.out.println(b);
    }
}

```

Answer 66

```

import java.util.*;
public class q66 {

    public static void main(String[] args) {
        double x1,x2,y1,y2;
        Scanner s=new Scanner(System.in);
        System.out.print("enter x1,y2,y1,y2 = ");
        x1=s.nextInt();
        x2=s.nextInt();
        y1=s.nextInt();
        y2=s.nextInt();
        double radius=6371.01;
        double
d=radius*Math.acos(Math.sin(x1)*Math.sin(x2)+Math.cos(x1)*Math.cos(x2)*Math.c
os(y1-y2));
        System.out.println("Distance between two point on
earth = "+d);
    }
}

```

Answer 67

```

import java.util.*;
public class q67 {

    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        System.out.print("Enter the no = ");
        int n=s.nextInt();
        int b=n+n*n+n*n*n;
        System.out.print(b);
    }
}

```

Qno=52 to 58 are similar questions like assignment-2

For any query contact -9304923308