

Qno1

```
import java.util.Scanner;
public class q1
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int i,e,p=0,n=0;
        System.out.println("Enter the the value of no. element in the list of numbers");
        e=sc.nextInt();
        System.out.println("Enter all the numbers of the list");
        for(i=1;i<=e;i++)
        {
            double m=sc.nextDouble();
            if(m<0)
                n=n+1;
            else
                p=p+1;
        }
        System.out.println("No. of negative elements="+n);
        System.out.println("No. of non-negative elements="+p);
    }
}
```

Qno2

```
import java.util.Scanner;
public class q2
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of n");
        int n=sc.nextInt();int i;double s=0.0;
        System.out.println("Enter the value of "+n+" numbers");
        for(i=1;i<=n;i++)
        {
            double a=sc.nextDouble();
            s=s+(a*a);
        }
        System.out.println("Sum of square of no.="s);
    }
}
```

Qno3

```
import java.util.Scanner;
public class q3
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of n");
        int n=sc.nextInt();
        int term=0,i;
```

```

        for(i=0;i<n;i++)
        {
            term=(int)Math.pow(2,i);
            System.out.print(+term+" ");
        }
    }
}

```

Qno4

```

import java.util.Scanner;
public class q4
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value for n");
        int n=sc.nextInt();int i;
        System.out.println("Series is:-");
        for(i=1;i<=n;i++)
        {
            if(i%2!=0)
            {
                System.out.print("1"+" ");
            }
            else if(i%2==0)
            {
                System.out.print("-1"+" ");
            }
        }
    }
}

```

Qno5

```

import java.util.Scanner;
public class q5
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int i;double term=1;
        System.out.println("Enter the value for n");
        int n=sc.nextInt();
        if(n==1)
        {
            System.out.println(+term);
        }
        else if(n>1)
        {
            for(i=2;i<=n;i++)
            {
                term=term*(1.0/i);
            }
        }
    }
}

```

```

        System.out.println(+term);
    }
}
}
Qno6
import java.util.Scanner;
public class q6
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int i;
        int n;
        System.out.println("Enter the number ");
        n=sc.nextInt();
        if(n<=0)
        {
            System.out.println("Not a factorial number");
        }
        else
        {
            for(i=1;i>=1;i++)
            {
                if(n%i==0)
                {
                    if(n==1)
                    {
                        System.out.println("Factorial number");
                        break;
                    }
                    else
                    n=n/i;
                }
            }
            else
            {
                if(n==1)
                {
                    System.out.println("Factorial number");
                    break;
                }
                else
                {
                    System.out.println("Not a factorial number");
                    break;
                }
            }
        }
    }
}
}

```

Qno7

```

import java.util.Scanner;
public class q7
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number ");
        int n=sc.nextInt();int i,j,t=0,k=0;
        for(i=n;i>=1;i--)
        {
            if(k!=1)
            {
                if(n%i==0)
                {
                    t=i;

                    for(j=2;j>=1;j++)
                    {
                        if(t%j==0)
                        {
                            t=t/j;
                        }
                        else
                        {
                            if(t==1)
                            {
                                System.out.println("Factorial no.="+i);
                                k=1;
                                break;
                            }
                            else
                            {
                                break;
                            }
                        }
                    }
                }
            }
        }
    }
}

```

Qno8

```

import java.util.Scanner;
public class q8
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the valus of two number ");
        int a=sc.nextInt();
        int b=sc.nextInt();
    }
}

```

```

int s=0,k=0;
while((b!=0)&&(a!=0))
{
    if((a>0)&&(b>0))
    {
        s=s+a;
        b--;
    }
    else if((a>0)&&(b<0))
    {
        s=s-a;
        b=b+1;
    }
    else if((a<0)&&(b<0))
    {
        s=s-a;
        b=b+1;
    }
    else if((a<0)&&(b>0))
    {
        s=s+a;
        b--;
    }
}
System.out.println("product="+s);
}
}

```

Qno9

```

import java.util.Scanner;
public class q9
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number ");
        int n=sc.nextInt();int i,j,f=1,s=0;
        for(i=0;i<=n;i++)
        {
            for(j=1;j<=i;j++)
            {
                f=f*j;
            }
            s=s+f;
            f=1;
        }
        System.out.println("Sum of the series="+s);
    }
}

```

Qno10

```

import java.util.Scanner;
public class q10
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of terms in series ");
        int n=sc.nextInt();int i,a=1,b=3,s=0;
        for(i=1;i<=n;i++)
        {
            if(i==1)
            {
                System.out.print(+a+" ");
            }
            else if(i==2)
            {
                System.out.print(+b+" ");
            }
            else
            {
                s=a+b;
                System.out.print(+s+" ");
                a=b;
                b=s;
            }
        }
    }
}

```

Qno11

```

import java.util.Scanner;
public class q11
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of terms in series ");
        int n=sc.nextInt();
        int a=0,b=1,c=1,s=0,i,j;
        for(i=1;i<=n;i++)
        {
            if(i==1)
                System.out.print(+a+" ");
            else if(i==2)
                System.out.print(+b+" ");
            else if(i==3)
                System.out.print(+c+" ");
            else
            {
                s=a+b+c;
                System.out.print(+s+" ");
                a=b;
            }
        }
    }
}

```

```

        b=c;
        c=s;
    }
}
}
}

```

Qno12

```

import java.util.Scanner;
public class q12
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of two number ");
        int d=sc.nextInt();
        int e=sc.nextInt();
        int i,b=1,a=0,s=0,k=0;
        int max=Math.max(d,e);
        for(i=0;b<=max;i++)
        {
            if(((d==0)&&(e==1))||(((d==1)&&(e==0))))
            {
                k=1;
                System.out.println("True");
                break;
            }
            else
            {
                if(((d==a)&&(e==b))||((d==b)&&(e==a)))
                {
                    k=1;
                    System.out.println("True");
                    break;
                }
                s=a+b;
                a=b;
                b=s;
            }
        }
        if(k==0)
        {
            System.out.println("False");
        }
    }
}

```

Qno13

```

import java.util.Scanner;
public class q13
{
    public static void main(String args[])
    {

```

```

Scanner sc=new Scanner(System.in);
System.out.println("Enter the number of terms in series ");
int n=sc.nextInt();
int i,j,t=0,s=0,f=1;
if(n==1)
System.out.print("1");
if(n==2)
System.out.print("1");
if(n>2)
{
    for(i=n-3;i<=n-2;i++)
    {
        t=i;
        for(j=1;j<=t;j++)
        {
            f=f*j;
        }
        s=s+f;
        f=1;
    }
    System.out.println(+s);
}
}
}

```

Qno14

```

import java.util.Scanner;
public class q14
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the integer");
        int n=sc.nextInt();
        int r=0,c=0;
        while(n!=0)
        {
            r=n%10;
            c=c+1;
            n=n/10;
        }
        System.out.println("no. of digits="+c);
    }
}

```

Qno15

```

import java.util.Scanner;
public class q15
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the integer");
    }
}

```



```

int n=sc.nextInt();
int r=0,s=0;
while(n!=0)
{
    r=n%10;
    s=s+r;
    n=n/10;
}
System.out.println("sum of digits="+s);
}
}
Qno16
import java.util.Scanner;
public class q16
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the set of number digits");
        int n=sc.nextInt();
        int m,s=0,i;
        System.out.println("Enter "+n+" number of single digits");
        for(i=1;i<=n;i++)
        {
            m=sc.nextInt();
            s=(s*10)+m;
        }
        System.out.println("Integer="+s);
    }
}

```

```

Qno17
import java.util.Scanner;
public class q17
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the an integer");
        int n=sc.nextInt();int i,k=0;
        System.out.println("Other than 1");
        for(i=2;i<=n;i++)
        {
            if(n%i==0)
            {
                System.out.println(+i);
                k=1;
                break;
            }
        }
        if(k!=1)
        System.out.println("Not Found");
    }
}

```

```
}  
}
```

Qno18

```
import java.util.Scanner;  
public class q18  
{  
    public static void main(String args[])  
    {  
        Scanner sc=new Scanner(System.in);  
        System.out.println("Enter the an integer");  
        int n=sc.nextInt();  
        int i;  
        System.out.print("All the divisor are=1 ");  
        for(i=2;i<=n/2;i++)  
        {  
            if(n%i==0)  
                System.out.print(+i+" ");  
        }  
        System.out.print(+n+" ");  
    }  
}
```

Qno19

```
public class q19a  
{  
    public static void main(String args[])  
    {  
        int i,j,f=0,max=0,t=0,ele=0;  
        for(i=1;i<=100;i++)  
        {  
            t=i;  
            for(j=1;j<=t;j++)  
            {  
                if(t%j==0)  
                {  
                    f=f+1;  
                }  
            }  
            if(f>=max)  
            {  
                max=f;  
                ele=i;  
            }  
            f=0;  
        }  
        System.out.println("Largest no. of divisor="+ele);  
    }  
}
```

Qno20

```
import java.util.Scanner;  
public class q20
```

```

{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the positive integers ");
        int n=sc.nextInt();
        int p=sc.nextInt();
        int min=Math.min(n,p);
        int i,k=0;
        for(i=2;i<=min;i++)
        {
            if((n%i==0)&&(p%i==0))
            {
                System.out.println("SCD="+i);
                k=1;
                break;
            }
        }
        if(k!=1)
            System.out.println("Not Found");
    }
}

```

Qno21

```

import java.util.Scanner;
public class q21
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the positive integers ");
        int n=sc.nextInt();
        int p=sc.nextInt();
        int min=Math.min(n,p);
        int max=Math.max(n,p);
        int i,j,k=0;
        for(i=1;i<=min;i++)
        {
            for(j=1;(min*j)<=(max*i);j++)
            {
                if((min*j)==(max*i))
                {
                    System.out.println("SCD="+min*j);
                    k=1;
                    break;
                }
            }
        }
        if(k==1)
        {
            break;
        }
    }
}

```

```

}
Qno22
import java.util.Scanner;
public class q22
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the positive integers x and n respectively ");
        int x=sc.nextInt();
        int n=sc.nextInt();
        double res=Math.pow(x,n);
        System.out.println("Result="+res);
    }
}

```

```

Qno23
import java.util.Scanner;
public class q23
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the value of n and n>0");
        int n=sc.nextInt();
        int a=0,b=1,i,s=0;
        if(n==1)
            System.out.println(+a);
        else if(n==2)
            System.out.println(+b);
        else if(n>2)
        {
            for(i=3;i<=n;i++)
            {
                s=a+b;
                if(i==n)
                    System.out.println(+s);
                a=b;
                b=s;
            }
        }
    }
}

```

```

Qno24
import java.util.Scanner;
public class q24
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the value of m and n");
    }
}

```

```

int n=sc.nextInt();
int m=sc.nextInt();
int min=Math.min(n,m);
int i;
for(i=1;i<=min;i++)
{
    if((n%i==0)&&(m%i==0))
    {
        System.out.print(+i+" ");
    }
}
}

```

Qno25

```

import java.util.Scanner;
public class q25
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the value n and m");
        int n=sc.nextInt();
        int m=sc.nextInt();
        int t=0,i,s1=0,s2=0;
        t=n;
        for(i=1;i<t;i++)
        {
            if(t%i==0)
            {
                s1=s1+i;
            }
        }
        t=m;
        for(i=1;i<t;i++)
        {
            if(t%i==0)
            {
                s2=s2+i;
            }
        }
        if((s1==m)&&(s2==n))
        {
            System.out.println("Amicable no.");
        }
        else
        {
            System.out.println("Not Amicable no.");
        }
    }
}

```

Qno26

```
public class q26
{
    public static void main(String args[])
    {
        int i,j,t=0,s=0;
        System.out.println("perfect no.");
        for(i=1;i<=500;i++)
        {
            t=i;
            for(j=1;j<t;j++)
            {
                if(t%j==0)
                {
                    s=s+j;
                }
            }
            if(s==i)
            {
                System.out.println(+s+" ");
            }
            s=0;
            t=0;
        }
    }
}
```