3.

```java
import java.util.*;

class Simple{

   public static void main(String args[]){

            Scanner sc =new Scanner(System.in);

            System.out.println("enter the value of rows");

            int n=sc.nextInt();

            int k=1;

            for(int i=1;i<=n;i++)

            {

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

                    {

                    System.out.print(k);

                    System.out.print("\t");

                    k++;

                    }

            System.out.print("\n");

            }

   }

}
```

4.

```java
import java.util.*;

class javagrade{

public static void main (String args[]){

Scanner gd= new Scanner (System.in);

System.out.println("enter the Cie marks:");

int Cie =gd.nextInt();

System.out.println("Enter the Sie marks :");

int Sie= gd.nextInt();

int total = Cie + Sie;

System.out.println("Total marks  you got is :\t" + total +"\n your grade is ");

          if(total>=90)

                  System.out.print("S\n");

          else if(total>=80 && total<90)

            System.out.print("A\n");

          else if(total>=70 && total<80)

             System.out.print("B\n");

          else if(total>=60 && total<70)

             System.out.print("C\n");

          else if(total>=50 && total<60)

             System.out.print("D\n");

          else if(total>=40 && total<50)
```

```
            System.out.print("E\n");

        else

            System.out.print("F\n");


    System.out.print("*****Thanks******");

}

}




5.

import java.util.*;

class apple{

public static void main( String args[]){

Scanner ab = new Scanner (System.in);

System.out.println("enter the values of a and b:");

int a=ab.nextInt();

int b=ab.nextInt();

int i,j,k=1;


        for(i=a;i<=b;i++)

            {

                for(j=2;j<=i/2;j++)
```

```
            {

                    if(i%j==0)

                    {

                    k=0;

                    break;

                    }

                            else

                            {

                            k=1;

                            }

        }


        if (k==1)

                {

                System.out.print(i);

                System.out.print("\t");


                }

        }


    }
```

```
}
```

6.

```java
import java.util.*;

import java.lang.Math;

class mango{

public static void main(String args[]){

Scanner op=new Scanner (System.in);

System.out.println("*******welcome to world of java created by amit********\n ");

System.out.println("enter the valid entry :\n 1. cylinder \n 2.cone \n 3. sphere \n");

System.out.println("if you want to quit   \t press 4");

int command=op.nextInt();

 double pi= 3.14;


    switch(command)

    {

     case 1:

     {
```

```java
float r,h;

double  area,volume;

System.out.println("\n enter the radius and height of the cylinder \t");

r =op.nextFloat();

h=op.nextFloat();

    area= (2*pi*r*h)+(2*pi*r*r);

    volume=pi*r*r*h;

    System.out.println("\nthe area of cylinder is :\t" +  area);

    System.out.println("the volume of cylinder is :\t" + volume);

    break;

    }

    case 2:

    {

     float r,h;

      double area,volume;

    System.out.println("\nEnter the radius and height of cone \t");

    r=op.nextFloat();

    h=op.nextFloat();

    volume=pi*r*r*(h/3);

    area =(pi*r)*(r + Math.sqrt(h*h + r*r));

    System.out.println("\n The area of cone is :\t" + area );

    System.out.println("\n The volume of cone is :\t" + volume);
```

```
  break;


 }

case 3:

{

float  r;

double area,volume;

System.out.println("\n Enter the radius of the sphere ");

r=op.nextFloat();

area=4*pi*r*r;

volume=(4.0/3.0)*pi*r*r*r;

System.out.println("\n The area of sphere is :\t" + area );

 System.out.println("\n The volume of  sphere is :\t" + volume);

 break;

 }

 case 4:

  break;


 default:

 System.out.println("Enter the valid input :");



 }
```

```
}

}
```