```java
class program2
{
    public static void main (String args[])
    {
        float cie=42, see =88, totalmarks;
        System.out. println (" CIE marks " + cie);
        System.out. println ( " SEE marks" + see);
        see = see/2;
        totalmarks = cie*see;
        System.out. println(" Total Marks " + totalmarks);
        if (totalmarks >=91 && total marks <=100)
        {
            System.out. println (" Grade : S");
        }
        else if (total marks >= 81 && total marks <a)
        {
            System.out. println( "Grade : A");
        }
        else if (totalmarks >= 71 && totalmarks <81)
        {
            System.out. println (" Grade : B');
        }
        else if (totalmarks >= 61 && totalmarks <71)
        {
```

```java
        System. out. println ( " Grade : C");
    }
    else if (totalmarks >= 51 && totalmarks < 61)
    {
        System. out. println (" Grade : D");
    }
    else if (totalmarks >= 40  && total marks < 51)
    {
        System. out. println(" Grade : E");
    }
    else if (total marks >= 0  && totalmarks < 40)
    {
        System. out. println(" Grade : F");
    }
   }
  }
```

```
class    program 3
{
    public    static  void  main  ( String  args[])
    {
        int a=12,  b=60,  P, j, flag;
        System.out.  println(" The  Prime No btw"+a+"and"+b
                              + "are:");
        for (i=a,  9<=b; i++)
        {
            flag=1;
            for (j=2; j<=i/2; j++)
            {
                if (i%j ==0)
                    flag=0;
                    break;
            }
            it (flag==1)
                System.out. print(" " + i);
        }
    }
}
```

```c
#include <stdio.h>
#include <math.h>

int main()
{
    int i, j;
    float r, h, area, vol;
    float pi = 3.1416;
    while(1)
    {
        printf(" \n Enter no to choose a shape to view the Area and Volume \n\n");
        printf(" [1] CYLINDER\n");
        printf(" [2] CONE \n ");
        printf(" [3] SPHERE \n");
        scanf("%d", &i);
        switch(i)
        {
            case 1:
                printf(" \n Enter the r of Cylinder");
                scanf("%f", &r);
                printf(" \n Enter the h of Cylinder");
                scanf("%f", &h);
                area = (2 * pi * r * h) + (2 * pi * r * r);
```

```c
        vol = pi * r * r * h;
        printf(" \n Area of the Cylinder: %.2f", area);
        printf(" \n Volume of the Cylinder: %.2f", vol);
        break;


case 2:
        printf(" \n Enter r of the Cone: ");
        scanf("%of", &r);
        printf("Enter the height of the Cone: ");
        scanf("%of", &h);
        area = pi * r * (r + sqrt((h*h) + (r*r)));
        vol = (pi * r * r * h)/3;
        printf(" \n Area of the Cone: %.2f", area);
        printf(" \n Volume of the Cone: %.2f", vol);
        break;


case 3:
        printf(" Enter the r of the Sphere");
        scanf("%of", &r);
        area = 4 * pi * r * r;
        vol = (4 * pi * r * r * r)/3;
        printf("Area of the sphere: %.2f", area);
        printf(" \n Vol of the sphere: %.2f", vol);
        break;
```

```
        default: printf(" INPUT IS NOT VALID");
     }

     printf(" Press 0 to repeat find the
            area, Volume & another shape :\n ");
     printf(" Press   any number to exit ");
     scanf("%d", &j);


     if(j != 0)
     {
           break;
     }
   }

   return 0;
}
```

```
Part 1

class program1
{
    public static void main (String args[])
    {
        int A[] [] = new int [4] [];
        A[0] = new int [1]
        A[1] = new int [2]
        A[2] = new int [3]
        A [3] = new int [4]
        int i, j, k;
        k = 1;
        for (i = 0; i < n; i++)
        {
            for (j = 0; j < i + 1; j++)
            {
                A[i] [j] = k;
                k++
            }
        }
        for (i = 0; i < n; i++)
        {
            for (j = 0; j < i + 1; j++)
            {
                System.out.print (A[i] [j] + " ");
            }
```

```
System.out.println ()
        }
    }
}
```