

```
import java.util.Scanner;
class week2a {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a number-");
        int n = sc.nextInt();
        int num = 1;
        for (int i = 0; i < n; i++) {
            for (int j = 0; j <= i; j++) {
                System.out.print(num + " ");
                ++num;
            }
            System.out.println();
        }
    }
}
```

2

```
import java.util.Scanner;
import java.lang.Math;
class weeb{
    public static void main (String args[]){
        final int SUB= 6;
        float[] weMark = new float [SUB];
        float[] seeMark = new float [SUB];
        float[] botMark = new float [SUB];
        float we, see;
        int i, j, k;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter we mark out of 50-\n");
        for (i= 0; i< SUB; i++){
            System.out.print ("sub" + (i+1) + "\n");
            we = sc.nextFloat();
            if (we > 50){
                System.out.println ("enter marks for 50-\n");
                i--;
            }
            weMark[i] = Math.round (we);
        }
        System.out.println ("Enter see mark out of 100-\n");
        for (j= 0; j< SUB; j++){
            System.out.print ("sub" + (j+1) + "\n");
            see = sc.nextFloat();
        }
    }
}
```



Name of the Experiment :

Experiment No. :

```

if (see > 100) {
    System.out.println("enter marks for 100-1n");
    i = 1;
}

```

```

else { seeMark[j] = Math.round(see/2);
}

```

```

}

```

```

for (k=0; k < SUB; k++) {

```

```

    totMark[k] = ceMark[k] + seeMark[k];

```

```

    System.out.println("for sub" + (k+1) + " grade is\n");

```

```

    if (totMark[k] >= 90) {

```

```

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

```

```

    } else if (totMark[k] >= 80) {

```

```

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

```

```

    } else if (totMark[k] >= 70) {

```

```

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

```

```

    } else if (totMark[k] >= 60) {

```

```

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

```

```

    } else if (totMark[k] >= 50) {

```

```

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

```

```

    } else if (totMark[k] >= 40) {

```

```

        System.out.println("E\n");

```

```

    } else { System.out.println("F\n");
}
}
}
}
}

```

3

```

import java.util.Scanner;
public class week2e {
    public static void main (String args[]) {
        int a, b, num1, num2, i, j;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 2 nos:");
        num1 = sc.nextInt();
        num2 = sc.nextInt();
        if (num1 > num2) {
            a = num2;
            b = num1;
        }
        else { a = num1;
              b = num2; }
        if (b < 2) { System.out.println("there are no in range");
                  System.exit(0); }
        System.out.println("prime nos in the range are:");
        for (i = a; i <= b; i++) {
            int flag = 0;
            for (j = 2; j <= i/2; j++) {
                if (i % j == 0) {
                    flag = 1;
                    break;
                }
            }
            if (flag == 0 && i != 1 && i != 0) {
                System.out.print(i);
                System.out.println();
            }
        }
    }
}

```



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

```
import java.lang.Math;
```

```
class week2 {
```

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

```
        float double pi = 3.14;
```

```
        double r, h;
```

```
        int choice;
```

```
        double area, volume;
```

```
        System.out.println("Enter shape you want\n");
```

```
        Scanner sc = new Scanner(System.in);
```

```
        do {
```

```
            System.out.println("menu 1: Cylinder 2: Cone 3: Sphere  
4: Exit\n");
```

```
            choice = sc.nextInt();
```

```
            switch(choice) {
```

```
                case 1:
```

```
                    System.out.println("Enter radius:\n");
```

```
                    r = sc.nextDouble();
```

```
                    System.out.println("Enter height:\n");
```

```
                    h = sc.nextDouble();
```

```
                    area = (2 * pi * r * h) + (2 * pi * (Math.pow(r, 2)));
```

```
                    volume = pi * (Math.pow(r, 2)) * h;
```

```
                    System.out.println("Area" + area + "Volume" + volume + "\n");
```

```
                    break;
```

case 2:

```
System.out.println("Enter radius ln");  
r = sc.nextDouble();  
System.out.println("Enter height ln");  
h = sc.nextDouble();  
area = pi * r * (r + Math.sqrt(Math.pow(h, 2) + Math.pow(r, 2)));  
volume = pi * Math.pow(r, 2) * h / 3.0;  
System.out.println("Area" + area + "Volume" + volume + "\n");  
break;
```

case 3:

```
System.out.println("Enter radius ln");  
r = sc.nextDouble();  
area = 4 * pi * Math.pow(r, 2);  
volume = (4/3.0) * (pi * Math.pow(r, 3));  
System.out.println("Area" + area + "Volume" + volume + "\n");  
break;
```

case 4:

```
System.out.println("Exit ln");  
sc.close();
```

default:

```
System.out.println("Enter no from 1 to 4");
```

```
{
```

```
    { while (choice != 4);
```

```
    }
```

```
}
```