```
Roll No: 17
Expriment No: 4
Code:
Mean:
package math;
public class Meanop
       public void mean(int a,int b, int c)
               int sum=0;
               int len = 3;
               sum = a+b+c;
         float mea= sum/len;
               System.out.println("the mean is "+mea);
Median:
package math;
public class Medianop{
public void median()
             int n=5;
               double a[]=new double[n];
               a[0]=10;
               a[1]=20;
               a[2]=80;
               a[3]=40;
               a[4]=50;
              double m=0;
               if(n\%2==1)
                       m=a[(n+1)/2-1];
               else
                       m=(a[n/2-1]+a[n/2])/2;
System.out.println("Median :"+m);
Average:
package math;
public class Averageop{
public void average()
               int n=5;
               double a[]=new double[n];
         a[0]=10;
```

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a[1]=20;
                a[2]=30;
                a[3]=40;
                a[4]=50;
                double sum = a[0]+a[1]+a[2]+a[3]+a[4];
                double avg = sum/5;
                System.out.println("Average is :"+avg);
Standard Deviation:
package math;
public class Standardop{
public void deviation()
                double sum = 0.0;
                double standard Deviation = 0.0;
                double mean = 0.0;
                double res = 0.0;
                double sq = 0.0;
        int[] arr = \{ 12, 32, 11, 55, 10, 23, 14, 30 \};
        int n = arr.length;
       System.out.println("Elements are:");
        for (int i = 0; i < n; i++) {
        System.out.println(arr[i]);
        for (int i = 0; i < n; i++) {
        sum = sum + arr[i];
      mean = sum / (n);
      for (int i = 0; i < n; i++) {
        standardDeviation = standardDeviation + Math.pow((arr[i] - mean), 2);
     }
    sq = standardDeviation / n;
    res = Math.sqrt(sq);
        System.out.println("Standard Daviation is = "+res);
}
Convert Decimal to Binary:
package math.convert;
public class DtoB{
        public void convertt(int n)
                int[] binaryNum = new int[1000];
        int i = 0;
        while (n > 0)
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binaryNum[i] = n \% 2;
        n = n / 2;
        i++;
     for (int j = i - 1; j \ge 0; j - 0)
       System.out.print("Binary no is:"binaryNum[j]);
        System.out.println("");
Convert Decimal to Octal:
package math.convert;
public class DtoO{
        public void convert(int n)
        int[] octalNum = new int[100];
        int i = 0;
        while (n != 0) \{
        octalNum[i] = n \% 8;
        n = n / 8;
        i++;
        for (int j = i - 1; j \ge 0; j - 0)
                System.out.print(octalNum[j]);
                System.out.println("");
        }
Convert Decimal to Hex:
package math.convert;
public class DtoH{
        public void converttt(int n)
        int[] hexNum = new int[100];
        int i = 0;
        while (n != 0)  {
        hexNum[i] = n \% 16;
        n = n / 16;
        i++;
        for (int j = i - 1; j \ge 0; j - 0) {
        if (\text{hexNum}[j] > 9)
                System.out.print((char)(55 + hexNum[j]));
        else
                System.out.print(hexNum[j]);
                System.out.println("");
}
Main:
import math.Meanop;
import math.Medianop;
import math. Averageop;
```

```
import math.Standardop;
import math.convert.DtoO;
import math.convert.DtoB;
import math.convert.DtoH;
class exp
       public static void main(String args[])
               Meanop a = new Meanop();
               a.mean(5,7,5);
               Medianop b = new Medianop();
               b.median();
               Averageop c = new Averageop();
               c.average();
               Standardop d = new Standardop();
               d.deviation();
               DtoO e = new DtoO();
               e.convert(31);
               DtoB f = new DtoB();
               f.convertt(30);
               DtoH h = new DtoH();
               h.converttt(23);
}
```

## **Output:**

```
D:\java\experiment 4>java exp
the mean is 5.0
Median:80.0
Average is :30.0
Elements are:
12
32
11
55
10
23
14
30
Standard Daviation is = 14.438988018555872
37
11110
```