Week-4

Name – Randrita Sarkar [11500219058]

IT PCC-CS593 L - OBJECT ORIENTED PROGRAMMING LAB

1.Create a class 'Student' with data members which are name and marks of five subjects. You need to find out the topper based on the total marks obtained by the students(at le ast 10 students) using static concept(block,variable,method).

```
static int temp=Integer.MIN VALUE;
     static String k = "null";
             sum=sum+num;
         Student.compare(sum, name);
     static void compare(int x,String name) {
     static void display() {
         System.out.println("The Highest Marks is "+ temp+" &
public class StudentMarks {
   public static void main(String[] args) {
       System.out.println("Representing 3 Cases with 3
       System.out.println("---
```

```
Scanner input = new Scanner(System.in);
int t = 3;

while (t-->0) {
    int[] arr = new int[3];
    System.out.print("Enter the name of the Student : ");
    String naam;
    input.nextLine();
    naam=input.nextLine();

    System.out.print("Enter the five numbers of subject
in 'PCMBC' manner : ");
    for (int i = 0; i < 3; i++) {
        arr[i] = input.nextInt();
    }
    Student.count(arr,naam);
}

Student.display();
}</pre>
```

Output:

```
Representing 3 Cases with 3 Subjects

Enter the name of the Student:

Ram

Enter the five numbers of subject in 'PCMBC' manner: 5 5 5

Enter the name of the Student: Shyam

Enter the five numbers of subject in 'PCMBC' manner: 10 10 10

Enter the name of the Student: Randrita

Enter the five numbers of subject in 'PCMBC' manner: 20 20 20

The Highest Marks is 60 & Scored by Randrita

Process finished with exit code 0
```

Create a class that represents employee. Calculate the amount paid to a given employee for a pay period

and also calculate overtime pay. Make an 'OvertimeCalculator' class that can report gene ral information about overtime pay.

```
public class Employee
   public static void main(String arg[])
       double gs,it,pt,pf,netSalary,ov;
       Scanner sc=new Scanner(System.in);
       System.out.println("Enter Gross salary");
       qs=sc.nextDouble();
       System.out.println("Enter Income Tax %");
       System.out.println("Enter Professional Tax %");
       System.out.println("enter Provident Fund %");
       pf=sc.nextDouble();
       System.out.println("Enter the extra time employee worked
       ov=sc.nextDouble();
       netSalary=salary(gs,pf,pt,it);
       System.out.println("Net Salary is="+netSalary);
       OvertimeCalculator.overtime(ov);
   static double salary (double qs, double pf, double pt, double it)
class OvertimeCalculator{
       double over time, overtime pay;
           over time = time worked - 40;
```

Output:

```
Enter Gross salary

30000

Enter Income Tax %

Enter Professional Tax %

enter Provident Fund %

enter Provident Fund %

Net Salary is=26400.0

The overtime pay is =120.0
```

3. Write java program with static block and check whether static block is executed before <u>constructor</u> or after <u>constructor</u>.

```
class Blocks {
    static String k=" ";
    static {
        System.out.println("Hello! I'm Static Block! ");
    }
    Blocks(String anything) {
            k = anything;
            display();
    }
    static void display() {
            System.out.println(k);
    }
}

public class Check {
    public static void main(String[] args) {
            Blocks s1 = new Blocks("Hello! Constructor Here!");
            System.out.println("I'am main block");
    }
}
```

output: