

Experiment No. 03
Experiment Name: Implementation of Loops and IO

Course title: Programming Language II(Java) Lab
Course code:
Spring 2025

Date of Submission:



Submitted to-

Md. Rafsan Jani
Assistant Professor
Department of Computer Science and Engineering

Sl	Class Roll	Name
01	2023000010001	Md. Samaul Islam

Problem-1: Input 3 integers and print the smallest among them.



```
src > J smallest.java > ...
3 public class smallest {
4     public static void main(String []args){
5         Scanner scanner = new Scanner(System.in);
6         int smallest = Integer.MAX_VALUE;
7
8         System.out.println("Enter 3 numbers:");
9         for (int i = 0; i < 3; i++) {
10             int num = scanner.nextInt();
11             if (num < smallest) {
12                 smallest = num;
13             }
14         }
15         System.out.println("The smallest number is: " + smallest);
16         scanner.close();
17     }
18 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
$ /usr/bin/env C:\Program Files\Java\jdk-1.8\bin\java.exe -cp D:\arafat-dev\Depatmant-Cse\Semester-5\Java-Lab\Lab-Report\Lab\ 3\Lab_3\bin smallest
Enter 3 numbers:
8 9 4
The smallest number is: 4
```

bash
Run: smallest

Problem 2: Input 4 integers and print their average.

```
J average.java X
src > J average.java > average > main(String[])

2
3 public class average {
4     public static void main(String[] args){
5         Scanner scanner = new Scanner(System.in);
6         int sum = 0;
7         int count = 4;
8         System.out.println(x:"Enter 4 numbers:");
9         for (int i = 0; i < count; i++) {
10             int num = scanner.nextInt();
11             sum += num ;
12         }
13         double average = (double)sum/count;
14         System.out.println("The Average number is: " + average);
15         scanner.close();

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

b\\Lab-Report\\Lab\ 3\\Lab_3\\bin average
Enter 4 numbers:
4 5 6 7
The Average number is: 5.5
```

Problem 3: Input an integer N, then draw a diamond shape of 2N-1 lines using asterisks (*)

```
J DiamondPattern.java 1 X
src > J DiamondPattern.java > DiamondPattern > main(String[])

3 public class DiamondPattern {
4     public static void main(String[] args) {
10         for (int i = 1; i <= N; i++) {
11             for (int j = 1; j <= N - i; j++) {
12                 System.out.print(s:" ");
13             }
14             for (int k = 1; k <= 2 * i - 1; k++) {
15                 System.out.print(s:"*");
16             }
17             System.out.println();
18         }
19         for (int i = N - 1; i >= 1; i--) {
20             for (int j = 1; j <= N - i; j++) {

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Enter an integer N: 4
*
***
*****
*****
***
*
```