# **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

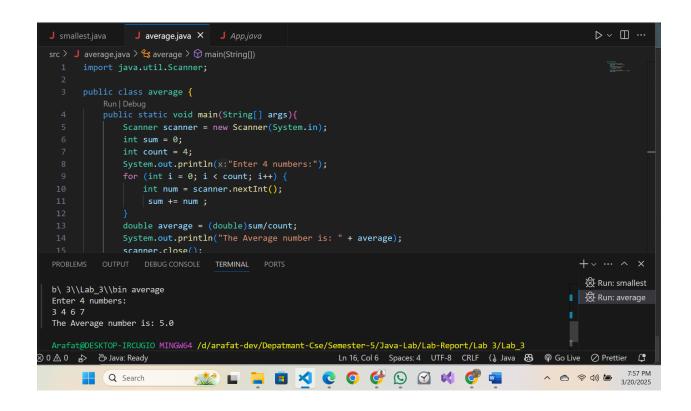
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Sl	Class Roll	Name
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## **Hw-1:** Input 3 integers and print the smallest among them.

```
J smallest.java X
                 J App.java
src > J smallest.java > ⇔ smallest > ۞ main(String[])
       import java.util.Scanner;
      public class smallest {
           public static void main(String []args){
               Scanner scanner = new Scanner(System.in);
               int smallest = Integer.MAX_VALUE;
               System.out.println(x:"Enter 3 numbers:");
               for (int i = 0; i < 3; i++) {
                   int num = scanner.nextInt();
                   if (num < smallest) {</pre>
                        smallest = num;
               System.out.println("The smallest number is: " + smallest);
               scanner.close();
           OUTPUT
                  DEBUG CONSOLE
                                  TERMINAL
                                                                                             汲 Run:
Enter 3 numbers:
5 2 9
The smallest number is: 2
```

**Hw-2:** Input 4 integers and print their average.



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

```
▷ ~ □ …
J smallest.iava
src > J DiamondPattern.java > ♀ DiamondPattern > ♀ main(String[])
      public class DiamondPattern {
         public static void main(String[] args) {
              int N = scanner.nextInt();
              for (int i = 1; i \le N; i++) {
 10
                  for (int j = 1; j <= N - i; j++) {
    System.out.print(s:" ");</pre>
                  for (int k = 1; k <= 2 * i - 1; k++) {
                  System.out.println();
              for (int i = N - 1; i >= 1; i--) {
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
                                                                                                                   Run: smallest
Enter an integer N: 3
Enter an integer N: 3
                                                                                                                  ***
****
 ***
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      Q Search
```