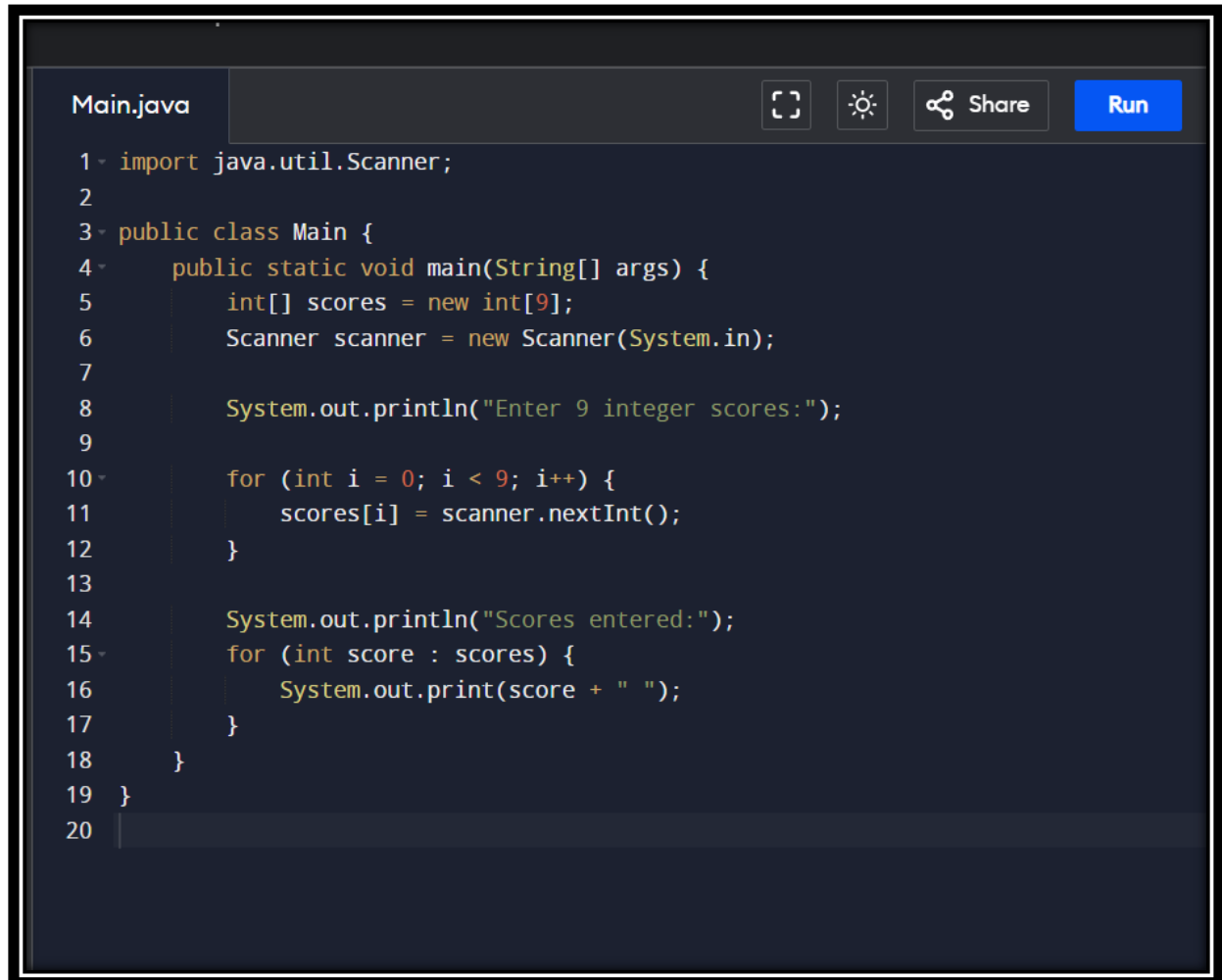


# Assignment-2

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1.

A screenshot of a Java IDE window titled 'Main.java'. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5         int[] scores = new int[9];
6         Scanner scanner = new Scanner(System.in);
7
8         System.out.println("Enter 9 integer scores:");
9
10        for (int i = 0; i < 9; i++) {
11            scores[i] = scanner.nextInt();
12        }
13
14        System.out.println("Scores entered:");
15        for (int score : scores) {
16            System.out.print(score + " ");
17        }
18    }
19 }
20
```

The IDE interface includes a toolbar with icons for full-screen, theme, share, and a blue 'Run' button.

## Output

```
java -cp /tmp/A0YR18Qz8p/Main
```

```
Enter 9 integer scores:
```

```
10
```

```
2
```

```
3
```

```
4
```

```
56
```

```
7
```

```
7
```

```
8
```

```
6
```





```
7
```

```
Scores entered:
```

```
10 2 3 4 5 7 8 6 7
```

```
=== Code Execution Successful ===
```

2.

```
Main.java    Share  Run
```

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5         float[][] price = new float[10][3];
6         Scanner scanner = new Scanner(System.in);
7
8         for (int i = 0; i < 10; i++) {
9             System.out.println("Enter prices for product " + (i + 1) + ":");
10            for (int j = 0; j < 3; j++) {
11                price[i][j] = scanner.nextFloat();
12            }
13        }
14
15        System.out.println("Prices entered:");
16        for (int i = 0; i < 10; i++) {
17            System.out.print("Product " + (i + 1) + ": ");
18            for (int j = 0; j < 3; j++) {
19                System.out.print(price[i][j] + " ");
20            }
21            System.out.println();
22        }
23
24        scanner.close();
25    }
26 }
27
```

#### Output

```
java -cp /tmp/8G0qQE1G6r/Main
Enter prices for product 1:
12
13
12
Enter prices for product 2:
1011

12
12
Enter prices for product 3:
12
121212

Enter prices for product 4:
133
16
18
Enter prices for product 5:
17
123
121
Enter prices for product 6:
181
81
2
878
Enter prices for product 7:
566
566
45
Enter prices for product 8:
464
56654
47
Enter prices for product 9:
4664
6646
465
Enter prices for product 10:
123
1234
342
Prices entered:
Product 1: 12.0 13.0 12.0
Product 2: 10.0 12.0 12.0
Product 3: 12.0 12.0 121.0
Product 4: 133.0 16.0 18.0
Product 5: 17.0 123.0 121.0
Product 6: 18.0 81.0 878.0
Product 7: 566.0 566.0 45.0
Product 8: 46.0 56654.0 47.0
Product 9: 4664.0 6646.0 465.0
Product 10: 123.0 1234.0 342.0

=== Code Execution Successful ===
```

3.

Main.java

Share

Run




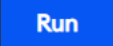
```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5         int[][] matrix = new int[][]{{5, 5, 5}, {5, 5, 5}, {5, 5, 5}, {5, 5, 5}};
6
7         System.out.println("Output:");
8         for (int i = 0; i < matrix.length; i++) {
9             for (int j = 0; j < matrix[i].length; j++) {
10                 System.out.print(matrix[i][j] + " ");
11             }
12             System.out.println(); // Move to the next line after each row
13         }
14     }
15 }
16
```

Output

```
java -cp /tmp/7YAmAxdKID/Main
Output:
5 5 5
5 5 5
}; 5 5 5
5 5 5

=== Code Execution Successful ===
```

4.

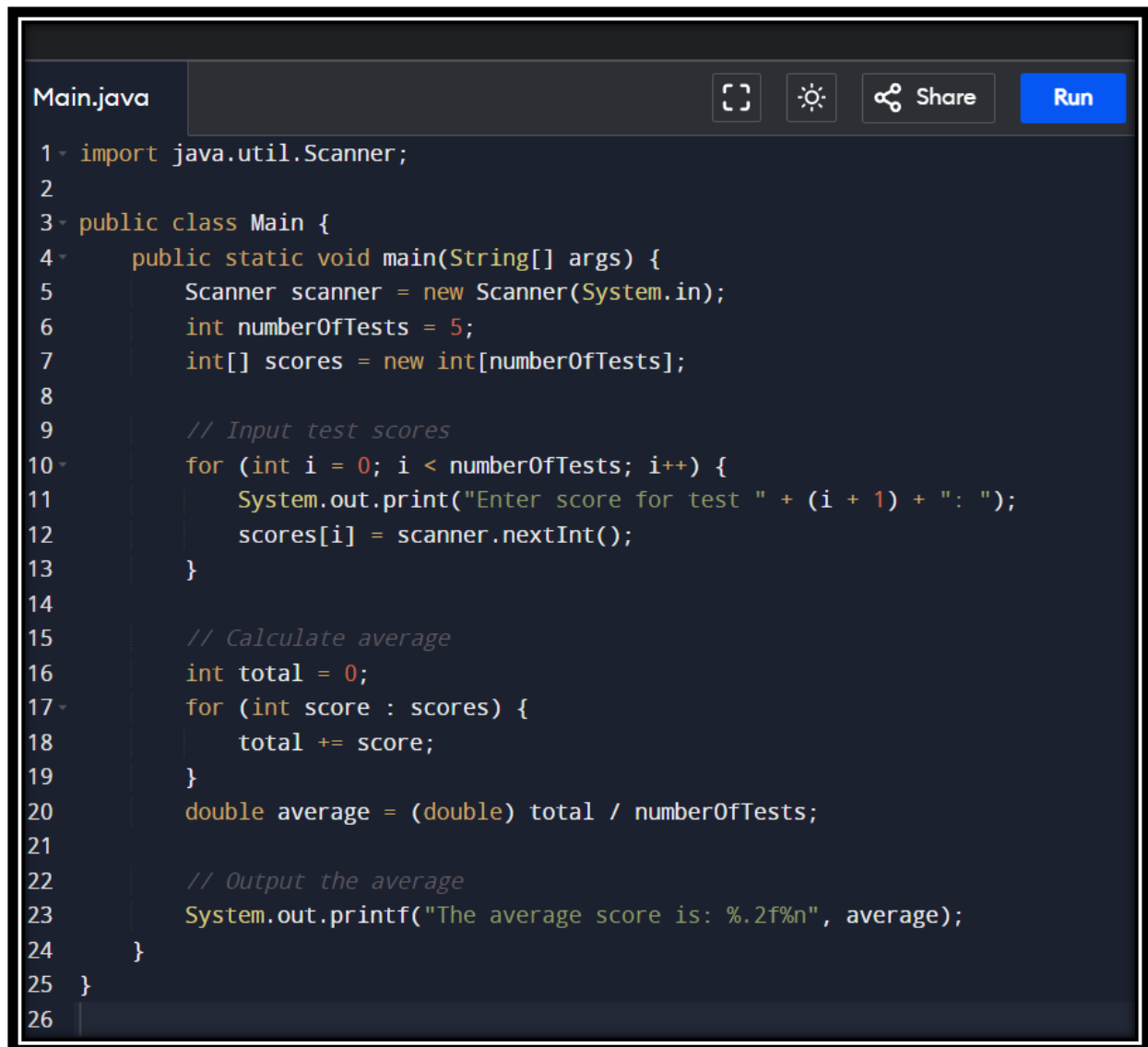
```
Main.java    Share  Run
```

```
1 public class Main {  
2     public static void main(String[] args) {  
3         byte[] values = new byte[10]; // Declare the array of size 10  
4  
5         // Initialize all entries to 1  
6         for (int i = 0; i < values.length; i++) {  
7             values[i] = 1;  
8         }  
9  
10        // Print the array to verify  
11        for (byte value : values) {  
12            System.out.print(value + " ");  
13        }  
14    }  
15 }  
16
```

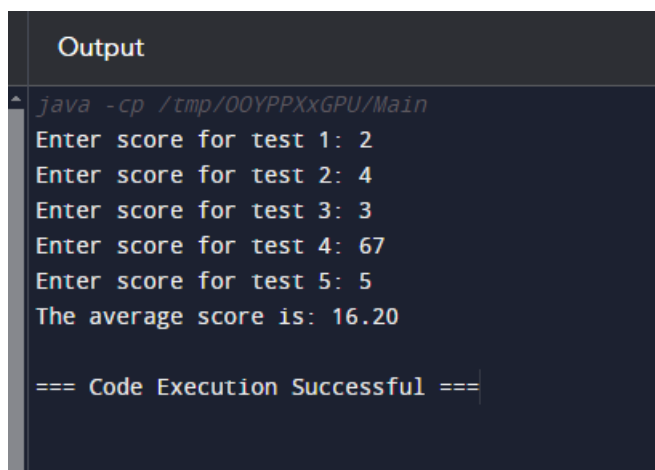
```
Output
```

```
java -cp /tmp/pjBCxmJFRp/Main  
1 1 1 1 1 1 1 1 1 1  
=== Code Execution Successful ===
```

5.



```
Main.java
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6         int numberOfTests = 5;
7         int[] scores = new int[numberOfTests];
8
9         // Input test scores
10        for (int i = 0; i < numberOfTests; i++) {
11            System.out.print("Enter score for test " + (i + 1) + ": ");
12            scores[i] = scanner.nextInt();
13        }
14
15        // Calculate average
16        int total = 0;
17        for (int score : scores) {
18            total += score;
19        }
20        double average = (double) total / numberOfTests;
21
22        // Output the average
23        System.out.printf("The average score is: %.2f\n", average);
24    }
25 }
26
```



```
Output
^ java -cp /tmp/OOYPPXxGPU/Main
Enter score for test 1: 2
Enter score for test 2: 4
Enter score for test 3: 3
Enter score for test 4: 67
Enter score for test 5: 5
The average score is: 16.20

=== Code Execution Successful ===
```





ain.java



Share

Run

```
5 // Method to subtract two matrices
6
7 public static int[][] subtractMatrices(int[][] a, int[][] b) {
8     int[][] result = new int[2][2];
9     for (int i = 0; i < 2; i++) {
10         for (int j = 0; j < 2; j++) {
11             result[i][j] = a[i][j] - b[i][j];
12         }
13     }
14     return result;
15 }
16
17 // Method to multiply two matrices
18 public static int[][] multiplyMatrices(int[][] a, int[][] b) {
19     int[][] result = new int[2][2];
20     for (int i = 0; i < 2; i++) {
21         for (int j = 0; j < 2; j++) {
22             result[i][j] = a[i][0] * b[0][j] + a[i][1] * b[1][j];
23         }
24     }
25     return result;
26 }
27
28 // Method to display a matrix
29 public static void displayMatrix(int[][] matrix, String operation) {
30     System.out.println("Result of " + operation + ":");
31     for (int[] row : matrix) {
32         for (int element : row) {
33             System.out.print(element + " ");
34         }
35         System.out.println();
36     }
37 }
38 }
39 |
```

## Output

```
java -cp /tmp/EU1Cvbl5vV/MatrixOperations
```

Menu:

- a. Enter Matrix A
- b. Enter Matrix B
- c. Display A + B
- d. Display A - B
- e. Display A \* B
- f. Exit

Choose an option: 2

Invalid option, please try again.

Menu:

- a. Enter Matrix A
- b. Enter Matrix B
- c. Display A + B
- d. Display A - B
- e. Display A \* B
- f. Exit

Choose an option: 4

Invalid option, please try again.

Menu:

- a. Enter Matrix A
- b. Enter Matrix B
- c. Display A + B
- d. Display A - B
- e. Display A \* B
- f. Exit

Choose an option:

