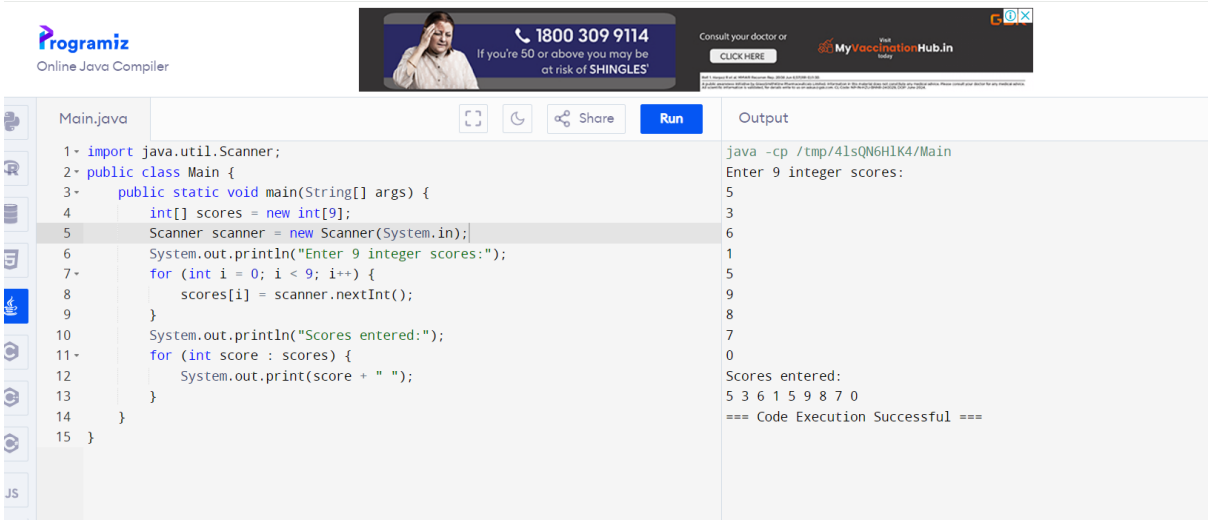
1.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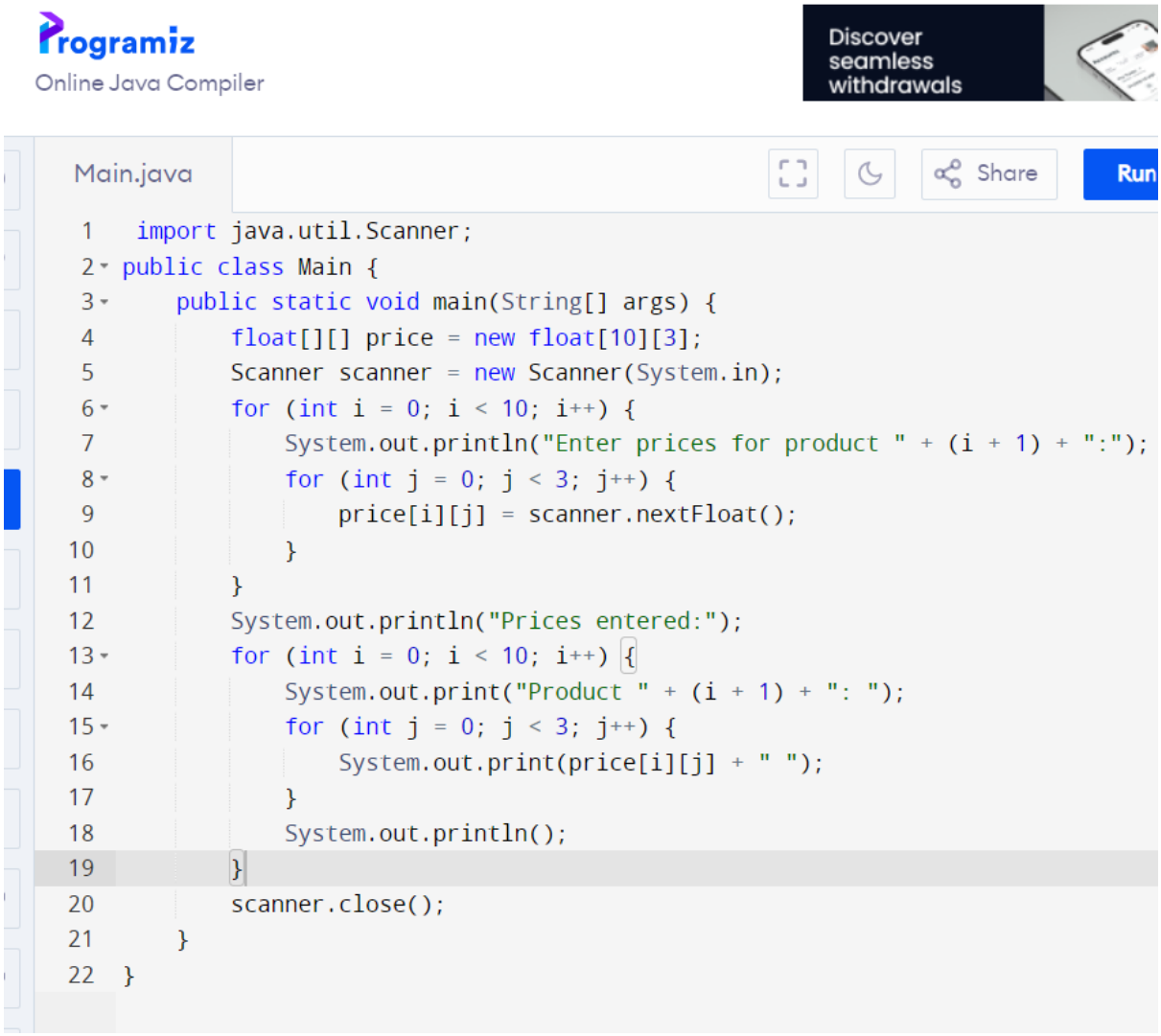
Main.java
Share
Run
Output
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
int[] scores = new int[9];
Scanner scanner = new Scanner(System.in);
System.out.println("Enter 9 integer scores:");
for (int i = 0; i < 9; i++) {
scores[i] = scanner.nextInt();
}
System.out.println("Scores entered:");
for (int score : scores) {
System.out.print(score + " ");
}
}
}
java -cp /tmp/4lsQN6HlK4/Main
Enter 9 integer scores:
5
3
6
1
5
9
8
7
0
Scores entered:
5 3 6 1 5 9 8 7 0
=== Code Execution Successful ===

2.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Main.java
Share
Run
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
float[][] price = new float[10][3];
Scanner scanner = new Scanner(System.in);
for (int i = 0; i < 10; i++) {
System.out.println("Enter prices for product " + (i + 1) + ":");
for (int j = 0; j < 3; j++) {
price[i][j] = scanner.nextFloat();
}
}
System.out.println("Prices entered:");
for (int i = 0; i < 10; i++) {
System.out.print("Product " + (i + 1) + ": ");
for (int j = 0; j < 3; j++) {
System.out.print(price[i][j] + " ");
}
System.out.println();
}
scanner.close();
}
}

Output

```
java -cp /tmp/v8jfmU39U5/Main
Enter prices for product 1:
15
602
23
Enter prices for product 2:
5
0
90
Enter prices for product 3:
5
98
6

Enter prices for product 4:
8
9
4
Enter prices for product 5:
5
6
4
Enter prices for product 6:
59
26
100
```

```
36
Enter prices for product 8:
59
592
03
Enter prices for product 9:
25
10
20
Enter prices for product 10:
15
59
63
Prices entered:
Product 1: 15.0 60.0 23.0
Product 2: 5.0 0.0 90.0
Product 3: 5.0 9.0 6.0
Product 4: 8.0 9.0 4.0
Product 5: 5.0 6.0 4.0
Product 6: 59.0 26.0 100.0
Product 7: 89.0 9.0 36.0
Product 8: 59.0 59.0 3.0
Product 9: 25.0 10.0 20.0
Product 10: 15.0 59.0 63.0
```

3.

Main.java

Share Run

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

Output

```
java -cp /tmp/xF9v1jduu5/Main
Output:
5 5 5
5 5 5
5 5 5
5 5 5

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

4.

Main.java

Share Run Output

```java
public class Main {
    public static void main(String[] args) {
        byte[] values = new byte[10];
        for (int i = 0; i < values.length; i++) {
            values[i] = 1;
        }
        for (byte value : values) {
            System.out.print(value + " ");
        }
    }
}
```

```
java -cp /tmp/Tpbe6hHjhw/Main
1 1 1 1 1 1 1 1 1 1
=== Code Execution Successful ===
```

7.

Main.java

Share Run Output

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int numberOfTests = 5;
        int[] scores = new int[numberOfTests];
        for (int i = 0; i < numberOfTests; i++) {
            System.out.print("Enter score for test " + (i + 1) + ": ");
            scores[i] = scanner.nextInt();
        }
        int total = 0;
        for (int score : scores) {
            total += score;
        }
        double average = (double) total / numberOfTests;
        System.out.printf("The average score is: %.2f%n", average);
    }
}
```

```
java -cp /tmp/DiYL22iW19/Main
Enter score for test 1: 2
Enter score for test 2: 6
Enter score for test 3: 3
Enter score for test 4: 89
Enter score for test 5: 9
The average score is: 5.60

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

8.

```java
import java.util.Scanner;
public class MatrixOperations {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int[][] matrixA = new int[2][2];
        int[][] matrixB = new int[2][2];
        boolean running = true;
        while (running) {
            System.out.println("Menu:");
            System.out.println("a. Enter Matrix A");
            System.out.println("b. Enter Matrix B");
            System.out.println("c. Display A + B");
            System.out.println("d. Display A - B");
            System.out.println("e. Display A * B");
            System.out.println("f. Exit");
            System.out.print("Choose an option: ");
            String choice = scanner.nextLine().toLowerCase();
            switch (choice) {
                case "a":
                    matrixA = enterMatrix(scanner, "A");
                    break;
                case "b":
                    matrixB = enterMatrix(scanner, "B");
                    break;
                case "c":
                    displayMatrix(addMatrices(matrixA, matrixB), "A + B");
```

```
                displayMatrix(addMatrices(matrixA, matrixB), "A + B");
                break;
            case "d":
                displayMatrix(subtractMatrices(matrixA, matrixB), "A - B");
                break;
            case "e":
                displayMatrix(multiplyMatrices(matrixA, matrixB), "A * B");
                break;
            case "f":
                running = false;
                break;
            default:
                System.out.println("Invalid option, please try again.");
        }
    }
    System.out.println("Exiting program.");
    scanner.close();
}
public static int[][] enterMatrix(Scanner scanner, String matrixName) {
    int[][] matrix = new int[2][2];
    System.out.println("Enter values for Matrix " + matrixName + ":");
    for (int i = 0; i < 2; i++) {
        for (int j = 0; j < 2; j++) {
            System.out.print("Element [" + (i + 1) + "][" + (j + 1) + "]: "
                );
            matrix[i][j] = scanner.nextInt();
        }
```

Main.java

Share

```
        }
        scanner.nextLine();
        return matrix;
    }
    public static int[][] addMatrices(int[][] a, int[][] b) {
        int[][] result = new int[2][2];
        for (int i = 0; i < 2; i++) {
            for (int j = 0; j < 2; j++) {
                result[i][j] = a[i][j] + b[i][j];
            }
        }
        return result;
    }
    public static int[][] subtractMatrices(int[][] a, int[][] b) {
        int[][] result = new int[2][2];
        for (int i = 0; i < 2; i++) {
            for (int j = 0; j < 2; j++) {
                result[i][j] = a[i][j] - b[i][j];
            }
        }
        return result;
    }
    public static int[][] multiplyMatrices(int[][] a, int[][] b) {
        int[][] result = new int[2][2];
        for (int i = 0; i < 2; i++) {
            for (int j = 0; j < 2; j++) {
                result[i][j] = a[i][0] * b[0][j] + a[i][1] * b[1][j];
            }
        }
        return result;
    }
    public static void displayMatrix(int[][] matrix, String operation) {
        System.out.println("Result of " + operation + ":");
        for (int[] row : matrix) {
            for (int element : row) {
                System.out.print(element + " ");
            }
            System.out.println();
        }
    }
```

```
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: 10
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
```