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Main.java

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```java
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 + " ");
        }
    }
}
```

Output | Clear

```
java -cp /tmp/Y71QFYlBaN/Main
Enter 9 integer scores:
50
50
23
40
80
60
75
32
95
Scores entered:
50 50 23 40 80 60 75 32 95
=== Code Execution Successful ===
```

```java
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 <4; i++) {
            System.out.print("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 < 4; 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();
    }
}
```

```
java -cp /tmp/SDOgaDqkxi/Main
Enter prices for product 1:223
666
444
Enter prices for product 2:555
666
888
Enter prices for product 3:324
561
283
Enter prices for product 4:500
800
734
Prices entered:
Product 1: 223.0 666.0 444.0
Product 2: 555.0 666.0 888.0
Product 3: 324.0 561.0 283.0
Product 4: 500.0 800.0 734.0

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

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        int[][] matrix = new int[][]{{5, 5, 5}, {5, 5, 5}, {5, 5, 5}, {5, 5, 5}};
        System.out.println("Output:");
        for (int i = 0; i < matrix.length; i++) {
            for (int j = 0; j < matrix[i].length; j++) {
                System.out.print(matrix[i][j] + " ");
            }
            System.out.println();
        }
    }
}

```

```
java -cp /tmp/B6gw2aTasP/Main
Output:
5 5 5
5 5 5
5 5 5
5 5 5

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

```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/rMsiSqYs6K/Main
1 1 1 1 1 1 1 1 1 1
=== Code Execution Successful ===
```

```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/JYNUmFPLBq/Main
Enter score for test 1: 20
Enter score for test 2: 20
Enter score for test 3: 20
Enter score for test 4: 15
Enter score for test 5: 19
The average score is: 18.80

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

```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");
                    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 + ":");
```

```
java -cp /tmp/YL31Qf9o28/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: a
Enter values for Matrix A:
Element [1][1]: 2
Element [1][2]: 5
Element [2][1]: 1
Element [2][2]: 3
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: c
Result of A + B:
2 5
1 3
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: exit
=== Session Ended. Please Run the code again ===
```

```
46          System.out.println("Enter values for Matrix " + matrixName + ":");
47          for (int i = 0; i < 2; i++) {
48              for (int j = 0; j < 2; j++) {
49                  System.out.print("Element [" + (i + 1) + "][" + (j + 1) + "]: ");
50                  matrix[i][j] = scanner.nextInt();
51              }}
52          scanner.nextLine();
53          return matrix;
54      }
55      public static int[][] addMatrices(int[][] a, int[][] b) {
56          int[][] result = new int[2][2];
57          for (int i = 0; i < 2; i++) {
58              for (int j = 0; j < 2; j++) {
59                  result[i][j] = a[i][j] + b[i][j];
60              }
61          }
62          return result;
63      }
64      public static int[][] subtractMatrices(int[][] a, int[][] b) {
65          int[][] result = new int[2][2];
66          for (int i = 0; i < 2; i++) {
67              for (int j = 0; j < 2; j++) {
68                  result[i][j] = a[i][j] - b[i][j];
69              }
70          }
71          return result;
72      }
73      public static int[][] multiplyMatrices(int[][] a, int[][] b) {
74          int[][] result = new int[2][2];
75          for (int i = 0; i < 2; i++) {
76              for (int j = 0; j < 2; j++) {
77                  result[i][j] = a[i][0] * b[0][j] + a[i][1] * b[1][j];
78              }
79          }
80          return result;
81      }
82      public static void displayMatrix(int[][] matrix, String operation) {
83          System.out.println("Result of " + operation + ":");
84          for (int[] row : matrix) {
85              for (int element : row) {
86                  System.out.print(element + " ");
87              }
88              System.out.println();
89          }
90      }}
```

```
java -cp /tmp/YL3lQf9o28/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: a
Enter values for Matrix A:
Element [1][1]: 2
Element [1][2]: 5
Element [2][1]: 1
Element [2][2]: 3
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: c
Result of A + B:
2 5
1 3
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: exit
=== Session Ended. Please Run the code again ===
```