```java
public class DuquePQ11 {

    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);

        System.out.println("2. Matrix Averague ");

        int valuesToSum = 3;
        float averague[];
        float finalAverague;

        averague = new float[valuesToSum];

        for (int i = 0; i < 3; i++) {
            System.out.print("Enter the values to averague # " + (i + 1) + " -> ");
            averague[i] = input.nextFloat();
        }

        for (float values : averague) {
            System.out.println("Values are " + values);
        }
        finalAverague = computeAverague(averague);

        System.out.println("Averigue of this values " + averague[0] + averague[1] + averague[2] + " is equal to " + finalAverague);

        int values[] = {12, 23, 34, 98, 87, 65, 0};
        double option;

        System.out.println(
                "Enter a number");
        option = input.nextInt();

        if (option
                == 12) {
            System.out.println("This number is on Matrix");
```

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SPE202011-FP-GEO-3285 - C:\Users\aduqu\Desktop\THE X CODE\ESPE202011-FP-GEO-3285 × | DuquePQ11 (run) × | DuquePQ11 (run) #2 ×

```
Enter the values to averague # 3 -> 3
Values are 1.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 2.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 3.0
Averigue of this values 1.02.03.0 is equal to 2.0
Enter a number
69
Your number is not in the matrix
Welcome User
 Please Enter the number # 1 ->
```

Source | History

```
40
        if (option == 12) {
42          System.out.println("This number is on Matrix");
43      } else {
44          if (option == 23) {
45              System.out.println("This number is on Matrix");
46          } else {
47              if (option == 34) {
48                  System.out.println("This number is on Matrix");
49              } else {
50                  if (option == 98) {
51                      System.out.println("This number is on Matrix");
52                  } else {
53                      if (option == 87) {
54                          System.out.println("This number is on Matrix");
55                      } else {
56                          if (option == 65) {
57                              System.out.println("This number is on Matrix");
58                          } else {
59                              if (option == 0) {
60                                  System.out.println("This number is on Matrix");
61                              } else {
62                                  System.out.println("Your number is not in the matrix");
63                              }
64
65                          }
66                      }
67
68                  }
69
70              }
71
72          }
73      }
74
```

Output

ESPE202011-FP-GEO-3285 - C:\Users\aduqu\Desktop\THE X CODE\ESPE202011-FP-GEO-3285 | DuquePQ11 (run) | DuquePQ11 (run) #2

```
Enter the values to averague # 3 -> 3
Values are 1.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 2.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 3.0
Averigue of this values 1.02.03.0 is equal to 2.0
Enter a number
69
Your number is not in the matrix
Welcome User
 Please Enter the number # 1 ->
```

Source History

```
        int number = 0;
        float[] value;
        float sum = 0.0F;

        System.out.println(
                "Welcome User");

        value = new float[number];

        for (int i = 0;
                i < 5; i++) {
            System.out.print(" Please Enter the number # " + (i + 1) + " -> ");
            value[i] = input.nextInt();

            System.out.println("Values are" + value[i]);

            sum = addNumbers(value);
            System.out.println("The sum is equal to --> " + sum);

        }
    }

    public static float computeAveragueAverague(float[] averague) {
        float finalAverague;
        finalAverague = ((averague[0] + averague[1] + averague[2])) / 3;
        return finalAverague;
    }

    public static float addNumbers(float[] value) {
        float sum;
        sum = (value[0] + value[1] + value[2] + value[3] + value[4]);
        return sum;
    }
}
```

Output

ESPE202011-FP-GEO-3285 - C:\Users\aduqu\Desktop\THE X CODE\ESPE202011-FP-GEO-3285 | DuquePQ11 (run) | DuquePQ11 (run) #2

```
Enter the values to averague # 3 -> 3
Values are 1.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 2.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 3.0
Averigue of this values 1.02.03.0 is equal to 2.0
Enter a number
69
Your number is not in the matrix
Welcome User
 Please Enter the number # 1 ->
```

Source | History

```
78
79          System.out.println(
80                  "Welcome User");
81
82          value = new float[number];
83
84          for (int i = 0;
85                  i < 5; i++) {
86              System.out.print(" Please Enter the number # " + (i + 1) + " -> ");
87              value[i] = input.nextInt();
88
89              System.out.println("Values are" + value[i]);
90
91              sum = addNumbers(value);
92              System.out.println("The sum is equal to --> " + sum);
93
94          }
95      }
96
97      public static float computeAveragues(float[] averague) {
98          float finalAverague;
99          finalAverague = ((averague[0] + averague[1] + averague[2])) / 3;
100         return finalAverague;
101     }
102
103     public static float addNumbers(float[] value) {
104         float sum;
105         sum = (value[0] + value[1] + value[2] + value[3] + value[4]);
106         return sum;
107     }
108 }
109
```

Output

ESPE202011-FP-GEO-3285 - C:\Users\aduqu\Desktop\THE X CODE\ESPE202011-FP-GEO-3285 | DuquePQ11 (run) | DuquePQ11 (run) #2

```
run:
2. Matrix Averague
Enter the values to averague # 1 -> 1
Enter the values to averague # 2 -> 2
Enter the values to averague # 3 -> 3
Values are 1.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 2.0
Averigue of this values 1.02.03.0 is equal to 2.0
Values are 3.0
Averigue of this values 1.02.03.0 is equal to 2.0
Enter a number
```