

ASSIGNMENT-21

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The screenshot shows an IDE with the following components:

- Package Explorer:** Shows the project structure with 'com.vst4u' containing 'Demo.java', 'GroceryPrices.java', 'SingleD.java', and 'Test.java'.
- Editor:** Displays the code for 'GroceryPrices.java':

```
1 package com.vst4u;
2
3 import java.util.Scanner;
4
5 // single-dimensional regular array
6
7 public class GroceryPrices {
8
9     public static void main(String[] args) {
10
11         Scanner sc = new Scanner(System.in);
12
13         int [] prices = new int[5];
14
15         int i;
16
17         for(i=0; i<prices.length; i++)
18         {
19             System.out.println("Enter the prices are: ");
20             prices[i]=sc.nextInt();
21         }
22
23         System.out.println("Enter the prices are");
24
25         for(i=0; i<prices.length; i++)
26         {
27             System.out.println(prices[i]);
28         }
29
30     }
31
32 }
```
- Console:** Shows the output of the program:

```
<terminated> GroceryPrices [Java Application]
Enter the prices are:
10
Enter the prices are:
20
Enter the prices are:
30
Enter the prices are:
40
Enter the prices are:
50
Enter the prices are
10
20
30
40
50
```

The screenshot shows an IDE with the following components:

- Package Explorer:** Shows the project structure with 'es.java' and 'ksTable.java'.
- Editor:** Displays the code for 'StudentMarksTable.java':

```
1 package com.vst4u;
2
3 //Two-D regular array
4
5 import java.util.Scanner;
6
7 public class StudentMarksTable {
8
9     public static void main(String[] args) {
10
11         Scanner sc = new Scanner(System.in);
12
13         int [][] marks = new int [2][5];
14
15         int i,j;
16         for(i=0; i<marks.length; i++)
17         {
18             for(j=0; j<5; j++)
19             {
20                 System.out.println("Class: "+i+"Student: "+j);
21                 marks[i][j]=sc.nextInt();
22             }
23         }
24
25         System.out.println("The Student marks is!.....");
26         for(i=0; i<2; i++) {
27             for(j=0; j<5; j++) {
28                 System.out.println(marks[i][j]);
29             }
30         }
31
32     }
33
34 }
35
36 }
37 }
```
- Console:** Shows the output of the program:

```
<terminated> StudentMarksTable [Java Application] C:\Program Files\Java\
Class: 0Student: 0
10
Class: 0Student: 1
20
Class: 0Student: 2
30
Class: 0Student: 3
40
Class: 0Student: 4
50
Class: 1Student: 0
60
Class: 1Student: 1
70
Class: 1Student: 2
80
Class: 1Student: 3
90
Class: 1Student: 4
100
The Student marks is!.....
10
20
30
40
50
60
70
80
90
100
```

```
1 package com.vst4u;
2
3 //3-D array
4
5 import java.util.Scanner;
6
7 public class ThreeD {
8
9     public static void main(String[] args) {
10
11         Scanner sc = new Scanner(System.in);
12
13         int [][][] a = new int[2][3][5];
14         int i,j,k;
15
16         for(i=0; i<2; i++) {
17             for(j=0; j<3; j++) {
18                 for(k=0; k<5; k++) {
19                     System.out.println("School: "+i+"Class: "+j+"Student: "+k);
20                     a[i][j][k]=sc.nextInt();
21                 }
22             }
23         }
24
25         System.out.println("The students are: ");
26
27         for(i=0; i<2; i++)
28         {
29             for(j=0; j<3; j++) {
30                 for(k=0; k<5; k++) {
31                     System.out.println(a[i][j][k]);
32                 }
33             }
34         }
35
36
37     }
38 }
```

Console

```
<terminated> ThreeD (1) [Java Application] C:\Progr
School: 1Class: 2Student: 3
40
School: 1Class: 2Student: 4
50
The students are:
10
20
30
40
50
10
20
30
40
50
10
20
30
40
50
10
20
30
40
50
```