ASSIGNMENT-21

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```java
package com.vst4u;

import java.util.Scanner;

// single-dimensional regular array

public class GroceryPrices {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int [] prices = new int[5];

        int i;

        for(i=0; i<prices.length; i++)
        {
            System.out.println("Enter the prices are: ");
            prices[i]=sc.nextInt();
        }

        System.out.println("Enter the prices are");

        for(i=0; i<prices.length; i++)
        {
            System.out.println(prices[i]);
        }
    }
}
```

Console output:
```
<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
```

```java
package com.vst4u;

//Two-D regular array

import java.util.Scanner;

public class StudentMarksTable {
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int [][] marks = new int [2][5];

        int i,j;
        for(i=0; i<marks.length; i++)
        {
            for(j=0; j<5; j++)
            {
                System.out.println("Class: "+i+"Student: "+j);
                marks[i][j]=sc.nextInt();
            }
        }

        System.out.println("The Student marks is!.........");
        for(i=0; i<2; i++) {
            for(j=0; j<5; j++) {
                System.out.println(marks[i][j]);
            }
        }
    }
}
```

Console output:
```
<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
```

```java
package com.vst4u;

//3-D array

import java.util.Scanner;

public class ThreeD {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int [][][] a = new int[2][3][5];
        int i,j,k;

        for(i=0; i<2; i++) {
            for(j=0; j<3; j++) {
                for(k=0; k<5; k++) {
                    System.out.println("School: "+i+"Class: "+j+"Student: "+k);
                    a[i][j][k]=sc.nextInt();
                }
            }
        }

        System.out.println("The students are: ");

        for(i=0; i<2; i++)
        {
            for(j=0; j<3; j++) {
                for(k=0; k<5; k++) {
                    System.out.println(a[i][j][k]);
                }
            }
        }

    }
```

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
10
20
30
40
50
10
20
30
40
50
```