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Practical 2: WAP to Search an element in an array entered by the user.

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Practical 2

Aim: WAP to search an element in an array entered by the user.

Theory :

Array : Arrays are used to store multiple values in a single variable, instead of declaring separate variables for each value.

Declaration: `int[] array;`

Initialization: `int[] array = new int[5];`
↑
size

```
int[] array = { 10, 20, 30, 40 };
```

Types of Arrays : Single dimensional.
Multi dimensional.

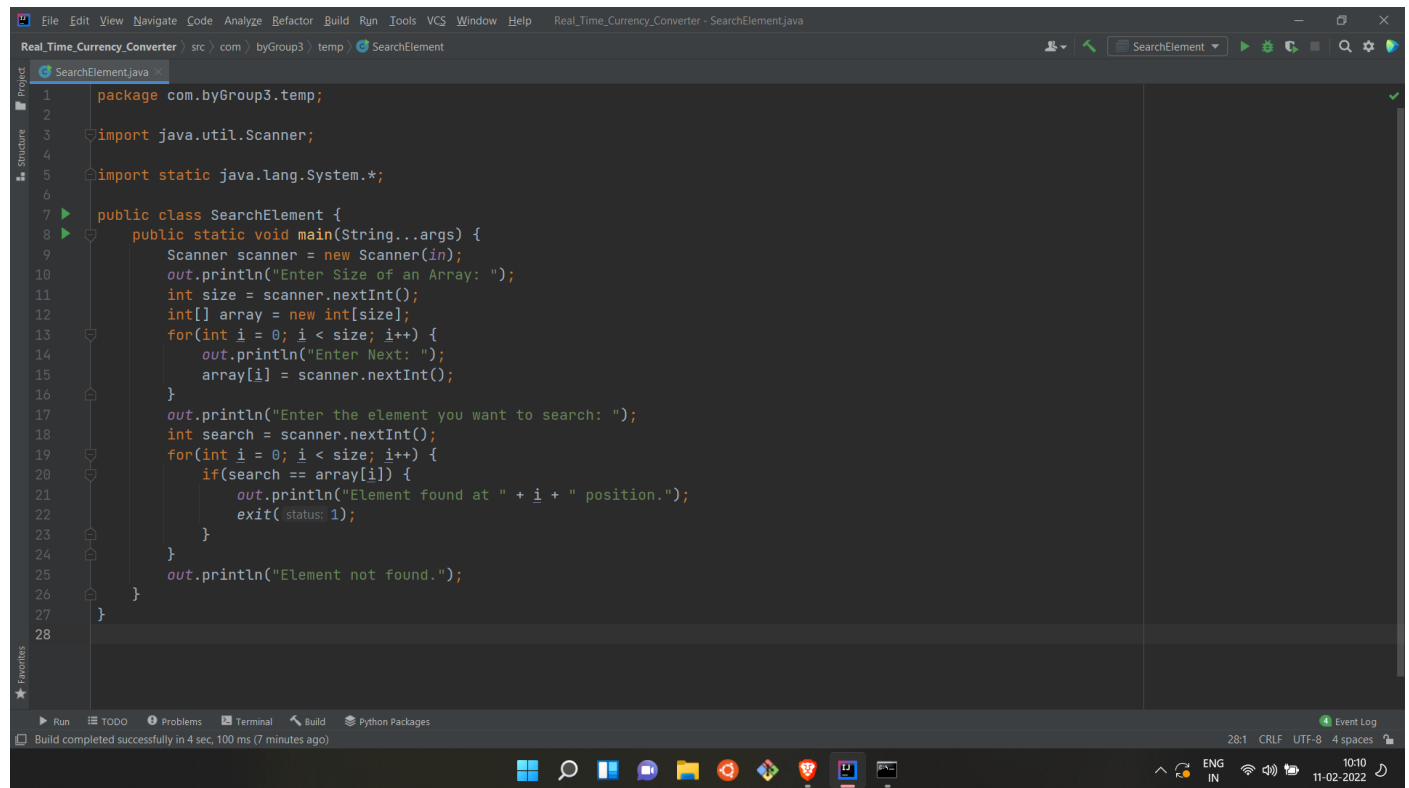
Multi dimensional Array :

```
int[][] array = new int[2][3];
```

we can get Array length using
array.length variable.
↑
Object
Name

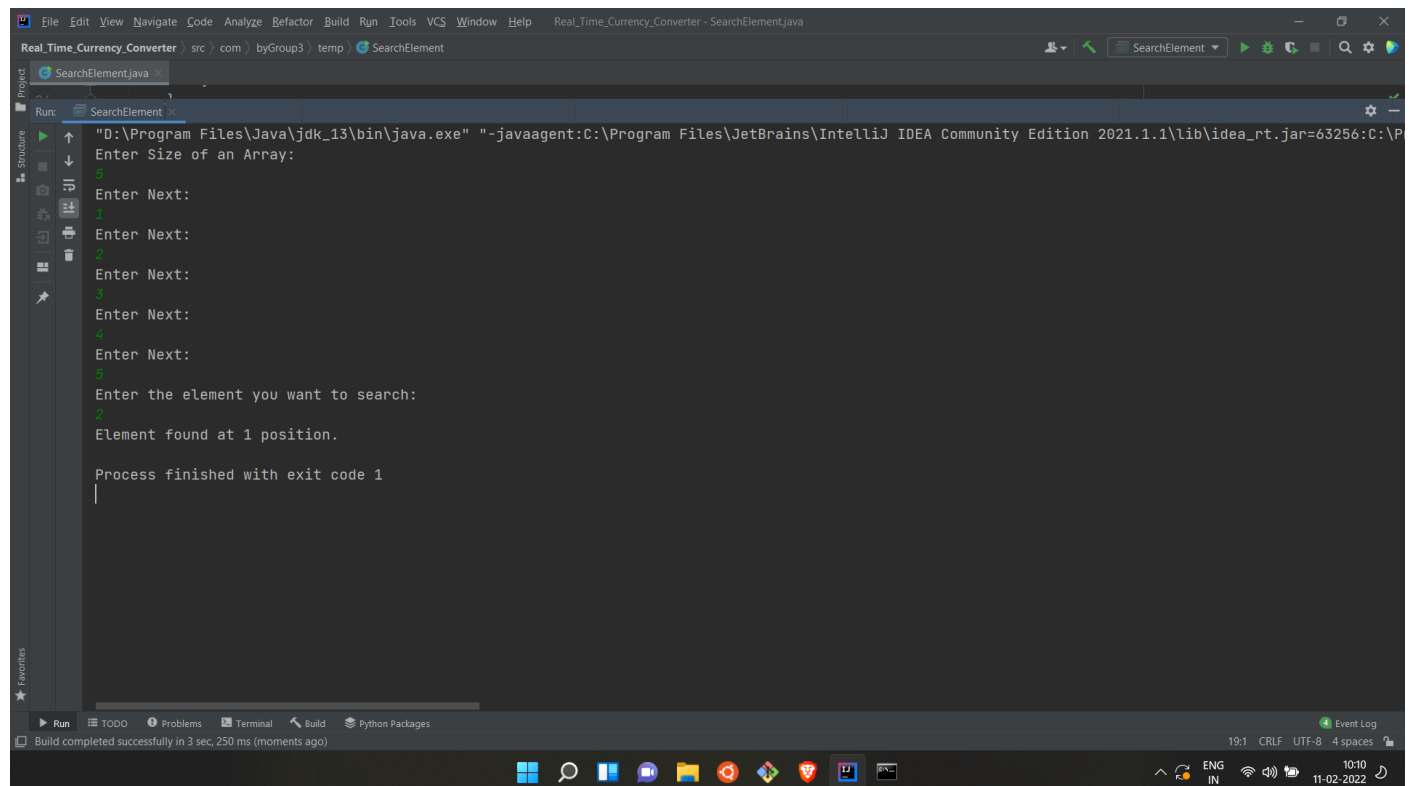
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Program:



```
1 package com.byGroup3.temp;
2
3 import java.util.Scanner;
4
5 import static java.lang.System.*;
6
7 public class SearchElement {
8     public static void main(String...args) {
9         Scanner scanner = new Scanner(in);
10        out.println("Enter Size of an Array: ");
11        int size = scanner.nextInt();
12        int[] array = new int[size];
13        for(int i = 0; i < size; i++) {
14            out.println("Enter Next: ");
15            array[i] = scanner.nextInt();
16        }
17        out.println("Enter the element you want to search: ");
18        int search = scanner.nextInt();
19        for(int i = 0; i < size; i++) {
20            if(search == array[i]) {
21                out.println("Element found at " + i + " position.");
22                exit( status: 1);
23            }
24        }
25        out.println("Element not found.");
26    }
27 }
28
```

Output:



```
"D:\Program Files\Java\jdk_13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.1.1\lib\idea_rt.jar=63256:C:\P
Enter Size of an Array:
5
Enter Next:
1
Enter Next:
2
Enter Next:
3
Enter Next:
4
Enter Next:
5
Enter the element you want to search:
1
Element found at 1 position.
Process finished with exit code 1
|
```