

Chapter 6 Arrays For each loop by Munawar

Array Length

Array have a length property which gives the length of the array.

Marks. Length

Gives 5 if marks is a reference to array with 5 elements

```
// Length of Array
int [] mark={1,2,4,5,6,7,8,8};
System.out.println(mark.length);
```

Displaying an Array

An array can be displayed using a for loop.

For (Int i=0; i< mark. length; i++)

{

// code

}

```
// Displaying Array elements ( native way )

System.out.println(mark[0]);
System.out.println(mark[1]);
System.out.println(mark[2]);

// Displaying Array elements ( for loop )
for (int i=0;i<mark.length;i++){
    System.out.println(mark[i]);
}
```

Quick Quiz

Write a java program to print the elements of an array in reverse order

```
// Quick Quiz
```

```
// Displaying Array elements in reverse order ( for loop )
System.out.println("Printing in reverse order");
for (int i=mark.length-1;i>=0;i--){
    System.out.println(mark[i]);
}
```

For each loop

Array elements can also be traversed as follows.

```
For (Int element: Array){
```

```
    Sout(element); ---- > print all elements
```

```
}
```

```
// printing using for each loops
System.out.println("Printing element an array using for each loop");
for(String element: Students){
    System.out.println(element);
}
```

Source Code

```
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        // Length of Array
        int [] mark={1,2,4,5,6,7,8,8};
        //      System.out.println(mark.length);
        //
        //      // type is float
        //      float [] number={1.2f,3.2f,4.0f};
        //      System.out.println(number[2]);
        //
        //      String [] std={"Ali","Munawar","Hussain"};
        //      System.out.println(std[1]);

        // Displaying Array elements ( native way )
        //
        //      System.out.println(mark[0]);
        //      System.out.println(mark[1]);
        //      System.out.println(mark[2]);

        //      // Displaying Array elements ( for loop )
        //      for (int i=0;i<mark.length;i++){
        //          System.out.println(mark[i]);
        //      }
    }
}
```

```
// Quick Quiz
// Displaying Array elements in reverse order ( for loop )
System.out.println("Printing in reverse order");
for (int i=mark.length-1;i>=0;i--){
    System.out.println(mark[i]);
}

String [] Students={"Munawar","Ali","hassan","Mir"};
// printing using for each loops
System.out.println("Printing element an array using for each loop");
for(String element: Students){
    System.out.println(element);
}

}
```

Thank You