

# Java Arrays

## Array Elements

### Sample Codes

```
class Main {  
    public static void main(String[] args) {  
  
        // create an array  
        int[] age = {22, 45, 32, 17, 19};  
  
        // access each array elements  
        System.out.println("Accessing Elements of Array:");  
        System.out.println("First Element: " + age[0]);  
        System.out.println("Second Element: " + age[1]);  
        System.out.println("Third Element: " + age[2]);  
        System.out.println("Fourth Element: " + age[3]);  
        System.out.println("Fifth Element: " + age[4]);  
    }  
}
```

### Output

```
Accessing Elements of Array:  
First Element: 22  
Second Element: 45  
Third Element: 32  
Fourth Element: 17  
Fifth Element: 19
```

## Using For Loop

### Sample Code

```
class Main {  
    public static void main(String[] args) {  
  
        // create an array  
        int[] age = {44, 23, 22};  
    }  
}
```

```
// loop through the array
// using for loop
System.out.println("Using for Loop:");
for(int i = 0; i < age.length; i++) {
    System.out.println(age[i]);
}
}
```

## Output

```
Using for Loop:
44
23
22
```

## Using For-Each Loop

### Sample Code

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

        // create an array
        int[] age = { 12, 4, 5 };

        // loop through the array
        // using for loop
        System.out.println("Using for-each Loop:");
        for(int a : age) {
            System.out.println(a);
        }
    }
}
```

## Output

Using for-each Loop:

12

4

5

## References

- [https://www.w3schools.com/java/java\\_arrays.asp](https://www.w3schools.com/java/java_arrays.asp)
- <https://www.programiz.com/java-programming/arrays>
- <https://docs.oracle.com/javase/tutorial/java/nutsandbolts/arrays.html>