TutorialKart

How to Initialize an ArrayList in Java?

Initialize an ArrayList in Java

To initialize an ArrayList in Java, you can create a new ArrayList with new keyword and ArrayList constructor. You may optionally pass a collection of elements, to ArrayList constructor, to add the elements to this ArrayList. Or you may use add() method to add elements to the ArrayList.

In this tutorial, we will go through some of these methods to initialize an ArrayList.

Initialize Empty ArrayList

You can initialize an empty ArrayList by passing no argument to the ArrayList constructor.

In the following example, we create an ArrayList that can store strings.

Java Program

```java
import java.util.ArrayList;

public class ArrayListExample {
    public static void main(String[] args) {
        ArrayList<String> arraylist_1 = new ArrayList<String>();
    }
}
```

You may add elements to this ArrayList after initialization using add() method.

Java Program

```java
import java.util.ArrayList;

public class ArrayListExample {
    public static void main(String[] args) {
        ArrayList<String> arraylist_1 = new ArrayList<String>();
        arraylist_1.add("apple");
        arraylist_1.add("banana");

        arraylist_1.forEach(element -> {
            System.out.println(element);
        });
    }
}
```

```
}
```

Output

```
apple
banana
```

Initialize ArrayList with a Collection of Elements

You may specify a collection as argument to ArrayList constructor, and the new ArrayList will be initialized with elements in the collection.

Java Program

```java
import java.util.ArrayList;
import java.util.Arrays;

public class ArrayListExample {
    public static void main(String[] args) {
        String[] arr = {"apple", "banana"};
        ArrayList<String> arraylist_1 = new ArrayList<String>(Arrays.asList(arr));

        arraylist_1.forEach(element -> {
            System.out.println(element);
        });
    }
}
```

Output

```
apple
banana
```

Conclusion

In this Java Tutorial, we learned how to initialize an ArrayList using its constructor, with the help of example programs.

Java ArrayList

✦ Java ArrayList

✦ Java ArrayList - add()

✦ Java ArrayList - addAll()

✦ Java ArrayList - clear()

- Java ArrayList - clear()
- Java ArrayList - clone()
- Java ArrayList - contains()
- Java ArrayList - ensureCapacity()
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