JAVA 8

What is the difference between **STREAM** and **COLLECTIONS** ?

Collections :

Collections are more about storing the data and then performing computations. Once the records are added in the collection, it can be iterated multiple times using iterators.

```java
public class Collections {
    public static void main(String[] args) {
        ArrayList<Integer> aList = new ArrayList<>();
        aList.add(3);
        aList.add(5);
        aList.add(6);
        aList.add(7);

        //iterating 1st time
        Iterator<Integer> iterator = aList.iterator();
        while(iterator.hasNext()){
            System.out.print(iterator.next());
        }

        //iterating 2nd time
        Iterator<Integer> iterator2 = aList.iterator();
        while(iterator2.hasNext()){
            System.out.print(iterator2.next());
        }

    }
}
```

Stream :

Streams are about the **computations only**. You cannot iterate streams multiple times. You will be greeted with below error , if you try to iterate already iterated stream :

Error : *java.lang.IllegalStateException: stream has already been operated upon or closed*

```java
import java.util.stream.Stream;

public class ArrayToStream {

    public static void main(String[] args) {

        Stream<Integer> values = Stream.of(3,4,5,6,7);

        //iterating once
        values.forEach(System.out::print);

        //iterating twice -- Error
        values.forEach(System.out::print);
    }
}
```