

String, String Buffer and String Builder

Rawlabs Academy

What is String?

- String is **non-primitive** data type and it is also class which is under java.lang package.
- String is collection of characters
- Immutable
- Can create object without new keyword

Why String is Immutable?

- String are constants, values can't be changed after they are created
- Because java uses the concept of string literal
- Suppose, fi one reference variable changes the value of the object, it will be affected to all the reference variables. That is why string objects are immutable in java.

Example

```
public class Main {
    public static void main(String[] args) {
        String s = "Java";
        s.concat(" Programming");
        System.out.println(s);
    }
}
```

Output: Java

The concat() method is append the string at the end. So, String are immutable objects.

Java Heap Memory

String Constant Pool

Java

Java Programming

Cont...

```
public class Main {
    public static void main(String[] args) {
        String s = "Java";
        s = s.concat(" Programming");
        System.out.println(s);
    }
}
```

Output: Java Programming

So, it assign it into the reference variable.