

Java Concept 11

- **String** is **immutable** and concatenation of String Creates new String
- **StringBuffer** is **mutable**
- **String** Object **cannot** be directly assigned to **StringBuffer**

```
1 //StringBuffer is mutable
2 //Changing character in StringBuffer // No Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         //StringBuffer is mutable
8         StringBuffer sb1 = new StringBuffer("javaConcepts");
9         sb1.insert(0,"J");
10        System.out.println("String Buffer "+sb1);
11    }
12 }
```

run:
String Buffer JjavaConcepts

```
1 //Concatination of String leads to formation of new String
2 //No Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         String s2 = "java";
8         String s1 = "";
9         s1 = s2;
10        System.out.println("Is Both S1 and S2 pointing "
11                             + "to same memory location : "+ (s1==s2));
12        s2 = s2 + "Concepts";
13        System.out.println("Is Both S1 and S2 pointing to "
14                             + "same memory location : "+ (s1==s2));
15    }
16 }
```

run:
Is Both S1 and S2 pointing to same memory location : true
Is Both S1 and S2 pointing to same memory location : false

```
1 //String is immutable
2 //Changing character in string // Error
3 public class JavaConcept
4 {
5     public static void main(String args[])
6     {
7         String s1 = "javaConcepts";
8         s1.charAt(0) = 'J';
9         System.out.println("String "+s1);
10    }
11 }
```

Error- unexpected type
required: variable
found: value