

String Builders and String Buffers

String builders and String buffer are inbuilt classes defined in java.lang package. String builder and String binders are final classes. String buffer is a thread safe class. String builder is not a thread safe class.

String builder and String buffer are mutable class. In String builder and buffer classes only toString method is overridden and it returns object value.

String builder and buffer objects should be created using new operator. String builder and String buffer will be stored inside heap area.

```
public static void main(String[] args)
{
    StringBuilder s1=new StringBuilder("Java");
    StringBuffer s2=new StringBuffer("SQL");

    String s3=s1.toString();
    String s4=s2.toString();

    System.out.println(s3);
    System.out.println(s4);
}
```

There are few inbuilt functions for String builder.

1. Append("String");
2. insert(index,value); // not replace character
3. setCharAt(index,character);// replace character
4. reverse();

```
public static void main(String[] args)
{
    StringBuilder b1=new StringBuilder("QSPiders");
    b1.append("class");
    System.out.println(b1);

    b1.insert(8, ',');
    System.out.println(b1);

    b1.setCharAt(8, ':');
    System.out.println(b1); // replace the character

    b1.reverse();
    System.out.println(b1);
}
```

1. Write a program to read input string as 2000 and output as \$2000.00

```
public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the String");
    String s1=sc.next();
    StringBuilder b1=new StringBuilder(s1);
    b1.append(".00");
}
```

```
    b1.insert(0,'$');  
    System.out.println(b1);  
}
```