# Java - Introduction to Programming Lecture 13

## **String Builder**

#### **Declaration**

```
StringBuilder sb = new StringBuilder("Apna College");
System.out.println(sb);
```

#### **Get A Character from Index**

```
StringBuilder sb = new StringBuilder("Tony");
    //Set Char
    System.out.println(sb.charAt(0));
```

#### **Set a Character at Index**

```
StringBuilder sb = new StringBuilder("Tony");
    //Get Char
    sb.setCharAt(0, 'P');
    System.out.println(sb);
```

#### **Insert a Character at Some Index**

```
import java.util.*;

public class Strings {
    public static void main(String args[]) {
        StringBuilder sb = new StringBuilder("tony");
        //Insert char
        sb.insert(0, 'S');
        System.out.println(sb);
    }
}
```

#### **Delete char at some Index**

```
import java.util.*;

public class Strings {
    public static void main(String args[]) {
        StringBuilder sb = new StringBuilder("tony");
        //Insert char
        sb.insert(0, 'S');
        System.out.println(sb);

        //delete char
        sb.delete(0, 1);
        System.out.println(sb);
    }
}
```

### Append a char

Append means to add something at the end.

```
import java.util.*;

public class Strings {
   public static void main(String args[]) {
     StringBuilder sb = new StringBuilder("Tony");
     sb.append(" Stark");
     System.out.println(sb);
   }
}
```

## **Print Length of String**

```
import java.util.*;

public class Strings {
   public static void main(String args[]) {
      StringBuilder sb = new StringBuilder("Tony");
      sb.append(" Stark");
      System.out.println(sb);

      System.out.println(sb.length());
   }
}
```

## Reverse a String (using StringBuilder class)

```
import java.util.*;

public class Strings {
    public static void main(String args[]) {
        StringBuilder sb = new StringBuilder("HelloWorld");

        for(int i=0; i<sb.length()/2; i++) {
            int front = i;
            int back = sb.length() - i - 1;

            char frontChar = sb.charAt(front);
            char backChar = sb.charAt(back);

            sb.setCharAt(front, backChar);
            sb.setCharAt(back, frontChar);
        }

        System.out.println(sb);
    }
}</pre>
```

## **Homework Problems**

Try Solving all the String questions with StringBuilder.