

Strings in Java Assignment :

1.

```
import java.util.*;
class UserInput {
    public static void main (String args []){
        Scanner sc= new Scanner (System.in);
        String str=sc.nextLine();
        System.out.println(str);
    }
}
```
2. In Java, String concatenation forms a new String that is the combination of multiple strings. There are two ways to concatenate strings in Java:
 - By + (String concatenation) operator
 - By concat() method

Example of string concatenation by + operator :

```
class StringConcatenation1{
    public static void main(String args[]){
        String s="PW"+" Skills";
        System.out.println(s);
        //PW Skills
    }
}
```

Example of string concatenation by concat() method :

```
class StringConcatenation2{
    public static void main(String args[]){
        String s1="PW ";
        String s2="Skills";
        String s3=s1.concat(s2);
        System.out.println(s3);
        //PW Skills
    }
}
```

3. To calculate the length of a string in Java, you can use an inbuilt length() method of the Java string class.

Example:

```
class StringLength{
    public static void main (String args []){
        String str = "The PW Skills";
        System.out.println(str.length());
    }
}
```

```
//13
}
}
```

4. There are three ways to compare String in Java:

- Using equals() Method
- Using == Operator
- compareTo() Method

Example by using equals() method:

```
class EqualsMethod{
public static void main (String args []){
String str1 = "Devi";
String str2 = "Devi";
String str3 = new String ("Devi");
String str4 = "Devil";
System.out.println(str1.equals(str2));
System.out.println(str1.equals(str3));
System.out.println(str1.equals(str4));
//true
//true
//false
}
}
```

Example by using == operator :

```
class DoubleEqualMethod{
public static void main (String args []){
String str1 = "Devi";
String str2 = "Devi";
String str3 = new String ("Devi");
String str4 = "Devil";
System.out.println(str1==str2);
System.out.println(str1==str3);
System.out.println(str1==str4);
//true
//false
//false
}
}
```

Example by using compareTo() method :

```
class CompareMethod{
```

```

public static void main (String args []){
String str1 = "Devi";
String str2 = "DEVIL";
String str3 = new String ("Devi");
String str4 = "Devi";
System.out.println(str1.compareTo(str2));
System.out.println(str1.compareTo(str3));
System.out.println(str1.compareTo(str4));
//0
//0
//-1
}
}

```

5. class StringLen{

```

public static void main (String args []){
String str = "refrigerator";
System.out.println(str.length());
}
}

```

6. class CheckLetter{

```

public static void main (String args []){
String str = "Umbrella";
System.out.println(str.indexOf('e'));
//4
}
}

```

7. class RemoveConsonants{

```

public static void main (String args []){
String str = "Hello, have a good day";
System.out.println(str.replaceAll("[BCDEFGHJKLMNPQRSTUVWXYZbcdghijklmnpqrstvwxyz]", ""));
}
}

```