04 Feb'23 String In Java Assignment - 12

1. Write a simple String program to take input from user
Ans:

```
package Assignment_revision;

import java.util.Scanner;

public class TakeInputString {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in); //System.in is a standard input stream
        System.out.print("Enter a string: ");
        String str = sc.nextLine();          //reads string
        System.out.print("You have entered: " + str);
    }
}
```

2. How do you concatenate two strings in java? Give an example?
Ans: The technique of connecting two or more strings together to create a new string is known as string concatenation. Various approaches to concatenating a string in Java include the following:

● + operator
● String.concat() method

Example1:
```
String s="sachin";
System.out.println(s.concat("tendulkar"));
s+="IND";
=s+"MI";
System.out.print(s);
```
Concatenation is the process of combining two or more strings into a single string. This can be done in multiple ways, including using the "+" operator or the concat() method.

Example2:

Using the "+" operator:
String str1 = "Hello";
String str2 = "World";
String str3 = str1 + " " + str2;
System.out.println(str3); //Output: Hello World

Example3:
Using the concat() method:
String str1 = "Hello";
String str2 = "World";
String str3 = str1.concat(" ").concat(str2);
System.out.println(str3); //Output: Hello World

Example4:
String s = new String("sachin");
s.concat("tendulkar");
s=s.concat("IND");
s="sachintendulkar";

Example5:
String s1= new String("sachin");
s1.concat("tendulkar");
s1+="IND";
String s2=s1.concat("MI");
System.out.println(s1);

3. How do you find the length of a string in java Explain with an example?
Ans: It returns the no of characters present in the String.
Example:
String s="INeuron";
System.out.print(s.length());//7
System.out.print(s.length);//Compile time error

4. How do you compare two strings in java? Give an Example?

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Ans: To compare 2 Strings in java we use following approach

● == operator

It compares the reference of the Object.

● equals()

It compares the contents of two objects.

Example:

String s1 = new String("sachin");

String s2 = new String("sachin");

System.out.println(s1==s2); //false

System.out.println(s1.equals(s2));//true

5. Write a program to find the length of the string "refrigerator"

Ans:

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

Output: 12

6. write a program to check if the letter 'e' is present in the word 'Umbrella'.

Ans:
```
package Strings;
public class Rough {
public static void main(String[] args) {
String str = "Umbrella";
boolean cha = str.contains("e");
System.out.println(cha);
}
}
```
Output: true

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7. Write a program to delete all consonants from the string "Hello, have a good day".

Ans:

```
package Assignment_revision;
public class Delete_All_Consonants_String {
public static void main(String[] args) {
String input = "Hello, have a good day";
String result = removeConsonants(input);
System.out.println(result);
}
public static String removeConsonants(String str) { StringBuilder sb = new
StringBuilder();
String vowels = "aeiouAEIOU";
for (int i = 0; i < str.length(); i++) {
char c = str.charAt(i);
// Check if the character is a vowel or whitespace if (vowels.indexOf(c) != -1
|| Character.isWhitespace(c)) { sb.append(c);
}
}
return sb.toString();
}
}
```