Assignment – 12th (Strings in Java)

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

Ans: - Here is a simple program in Java that takes input from the user and stores it as a string:

```
import java.util.Scanner;
public class Main {
   public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);
        System.out.print("Please enter your name: ");

        String name = scanner.nextLine();
        System.out.println("Hello, " + name + "!");
    }
}
```

OUTPUT

```
Please enter your name: Rahul Kumar Hello, Rahul Kumar!

...Program finished with exit code 0
Press ENTER to exit console.
```

2. How do you concatenate two strings in Java, Give an example?

Ans: - Concatenate two strings by using the '+' operator & 'concat' method. Here's an example:

```
public class Main {
    public static void main(String[] args) {

        String fname = "Rahul";
        String lname = "Kumar";

        // String result = fname + lname;
        String result = fname.concat(lname);
        System.out.println(result);
    }
}
```

OUTPUT

```
Rahul Kumar
...Program finished with exit code 0
Press ENTER to exit console.
```

3. How do you find the length of a string in Java, Explain with an example.

Ans: - We can find the length of a string using the `length()` method of the String class. The `length()` method returns the number of characters in the string.

```
public class Main {
    public static void main(String[] args) {

        String str = "Rahul Kumar!";
        int length = str.length();

        System.out.println("String is: " + length);
    }
}
```

```
OUTPUT

The length of the string is: 12

...Program finished with exit code 0

Press ENTER to exit console.
```

4. How do you compare two strings in Java, Give an example?

Ans: - We can compare two strings using the `equals()` method of the `String` class or the `equalsIgnoreCase()` method to compare strings without considering case sensitivity. Here's an example:

```
public class Main {
    public static void main(Strng[] args) {
        String str1 = "Hello";
        String str2 = "Hello";
        // Using the equals() method
        if (str1.equals(str2)) {
            System out println("The strings are equal.");
        }
        else {
            System.out println("The strings are not equal.");
        // Using the equalsIgnoreCase() method:
        // if (str1.equalsIgnoreCase(str2)) {
               System.out println("The strings are equal.");
        // else {
// Sy
// }
               System.out.println("The strings are not equal.");
    }
```

OUTPUT

```
The strings are equal.

...Program finished with exit code 0
Press ENTER to exit console.
```

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

Ans: - Here is a program in Java to find the length of the string "refrigerator":

```
public class Main {
   public static void main(String[] args) {
      String string = "refrigerator";
      int length = string.length();
      System.out.println("The length of the string is: " + length);
   }
}
```

OUTPUT

```
The length of the string is: 12
...Program finished with exit code 0
Press ENTER to exit console.
```

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

Ans: - Here's a Java program to check if the letter 'e' is present in the word "Umbrella":

OUTPUT

```
The letter 'e' is present in the word Umbrella.

...Program finished with exit code 0
Press ENTER to exit console.
```

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

Ans: - Here's a Java program to delete all consonants from the string "Hello, have a good day":

OUTPUT

```
Resultant string after deleting consonants: eoaeaooa
...Program finished with exit code 0
Press ENTER to exit console.
```