

1. Ans.	Write a simple String Program to take input from user. <pre>import java.util.Scanner; public class StringInput { public static void main(String[] args) { Scanner s = new Scanner(System.in); System.out.print("Enter a string: "); String a = s.nextLine(); System.out.println("You entered: " + a); s.close(); } }</pre>
2. Ans.	How do you concatenate two strings in Java? Give an Example <p>In Java, concatenate two strings using the '+' operator or the 'concat()' method. Here's an example of both approaches:</p> <pre>public class StringConcatenation { public static void main(String[] args) { String str1 = "Hello"; String str2 = "_World"; // Using the + operator String result1 = str1 + ", " + str2; System.out.println("Result using + operator: " + result1); // Using the concat() method String result2 = str1.concat(str2); System.out.println("Result using concat() method: " + result2); } }</pre>

3. Ans.	How do you find the length of a string in Java? Explain with an Example The length of a string using the length() method of the String class. <pre>public class StringLengthExample { public static void main(String[] args) { String str = "Hello, World!"; int length = str.length(); System.out.println("Length of the string: " + length); } }</pre>
4. Ans.	How do you compare two strings in Java? Give an Example. Two strings for equality using the equals() method or the equalsIgnoreCase() method of the String class. <pre>public class StringComparison { public static void main(String[] args) { String str1 = "Hello"; String str2 = "hello"; String str3 = "Hello"; boolean isEqual1 = str1.equals(str2); boolean isEqual2 = str1.equals(str3); System.out.println("str1 equals str2: " + isEqual1); System.out.println("str1 equals str3: " + isEqual2); boolean isEqualIgnoreCase = str1.equalsIgnoreCase(str2); System.out.println("str1 equals (ignore case) str2: " + isEqualIgnoreCase); } }</pre>
5. Ans.	Write a program to find the length of the string "refrigerator". We use the length() method to get the length of the string and assign it to the length variable. The length() method returns an integer that represents the number of characters in the string. In this case, the string "refrigerator" has 12 characters, so the value of length will be 12.

Day 15 PW Skills Assignment

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

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

Ans.

```
public class Example  
{  
    public static void main(String[] args)  
    {  
        String word = "Umbrella";  
        char wanted = 'e';  
  
        boolean isPresent = false;  
  
        for (int i = 0; i < word.length(); i++)  
        {  
            if (word.charAt(i) == wanted)  
            {  
                isPresent = true;  
                break;  
            }  
        }  
  
        if (isPresent)  
        {  
            System.out.println("The letter " + wanted + " is present in the word.");  
        }  
        else  
        {  
            System.out.println("The letter " + wanted + " is not present in the  
word.");  
        }  
    }  
}
```

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

Ans.

```
public class RemoveConsonantsExample
{
    public static void main(String[] args)
    {
        String str = "Hello, have a good day";

        String result = removeConsonants(str);

        System.out.println("Original string: " + str);
        System.out.println("Modified string: " + result);
    }
    public static String removeConsonants(String str) {
        StringBuilder sb = new StringBuilder();

        for (int i = 0; i < str.length(); i++) {
            char c = str.charAt(i);

            // Check if the character is a consonant (excluding spaces and
            punctuation)
            if (!isConsonant(c)) {
                sb.append(c);
            }
        }
        return sb.toString();
    }
    public static boolean isConsonant(char c) {
        c = Character.toLowerCase(c);

        return c >= 'a' && c <= 'z' && !"aeiou".contains(String.valueOf(c));
    }
}
```