

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

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter a string: ");
        String userInput = scanner.nextLine();
        System.out.println("You entered : " + userInput);
    }
}
```

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

There are two methods to concatenate two strings in java :

- a. Using + operator
- b. Using concat() method

```
public class Main {
    public static void main(String[] args) {
        String str1 = "Hello";
        String str2 = "World";

        // 1st method
        String result1 = str1 + " " + str2;
        System.out.println("Concatenated using +: " + result1);

        // 2nd method
        String result2 = str1.concat(" ").concat(str2);
        System.out.println("Concatenated using concat(): " + result2);
    }
}
```

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

The length() method is used to find the length of a string.

```

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

```

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

Strings can be compared using equals() for content comparison and == for reference comparison. For case-insensitive comparison, use equalsIgnoreCase().

```

public class Main {
    public static void main(String[] args) {
        String str1 = "Hello";
        String str2 = "hello";

        // Using equals
        System.out.println("Using equals: " + str1.equals(str2)); // false

        // Using equalsIgnoreCase
        System.out.println("Using equalsIgnoreCase: " + str1.equalsIgnoreCase(str2)); //
true

        // Using ==
        System.out.println("Using ==: " + (str1 == str2)); // false (compares references)
    }
}

```

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

```

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

```

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

```
public class Main {  
    public static void main(String[] args) {  
        String word = "Umbrella";  
        if (word.contains("e")) {  
            System.out.println("The letter 'e' is present in \"" + word + "\".");  
        } else {  
            System.out.println("The letter 'e' is not present in \"" + word + "\".");  
        }  
    }  
}
```

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

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello, have a good day";  
        String result = "";  
  
        for (char ch : str.toCharArray()) {  
            // Append only vowels and spaces  
            if ("AEIOUaeiou ".indexOf(ch) != -1) {  
                result += ch;  
            }  
        }  
  
        System.out.println("String after removing consonants: " + result);  
    }  
}
```