String Assignment 4

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

Answer:

import java.util.Scanner;

public class test5 {

    public static void main(String[] args) {

        Scanner scan = new Scanner(System.in);

        System.out.println("Enter a String:");

        String s = scan.nextLine();

        System.out.println("Entered String :" + s);

    }

}

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

Answer: We can concate two Strings in java by using concat() method.

1. public class test6 {
2. public static void main(String[] args) {
3. String s1 = "Pw";
4. String s2 = s1.concat("Skills");
5. System.out.println(s2);// PwSkills
6. }
7. }
8. // How do you concatenate two strings in Java? Give an example?

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

Answer: We can find the Length of Strings in java by using length() method.

public class test {

    public static void main(String[] args) {

        String s1 = "    this is demo";

        System.out.println(s1.length());// 16

    }

}

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

Answer: We can compare two strings in Java in two ways:-

1. == operator: By using == operator we can compare the reference of two objects.
2. equals() method: By using equals() method we can compare the contents(values) of two objects.

Example:

public class test8 {

    public static void main(String[] args) {

        String s1 = "sachin";

        String s2 = "sachin";

        String s3 = new String("sachin");

        String s4 = "SACHIN";

        String s5 = new String("sachin");

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

        System.out.println(s3 == s2);// false

        System.out.println(s4 == s2);// false

        System.out.println(s3 == s5);// false

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

        System.out.println(s1.equals(s3));// true

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

    }

}

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

public class test {

    public static void main(String[] args) {

        String s1 = "refrigerator";

        System.out.println(s1.length());

    }

}

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

public class test9 {

    public static void main(String[] args) {

        String word = "Umbrella";

        char targetLetter = 'e';

        boolean isPresent = checkLetterPresence(word, targetLetter);

        if (isPresent) {

            System.out.println("The letter '" + targetLetter + "' is present in the word '" + word);

        } else {

            System.out.println("The letter '" + targetLetter + "' is not present in the word '" + word);

        }

    }

    public static boolean checkLetterPresence(String word, char targetLetter) {

        for (int i = 0; i < word.length(); i++) {

            if (word.charAt(i) == targetLetter) {

                return true;

            }

        }

        return false;

    }

}

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

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

public class test10 {

    public static void main(String[] args) {

        String input = "Hello, have a good day";

        String result = removeConsonants(input);

        System.out.println("String after removing consonants: " + result);

    }

    public static String removeConsonants(String input) {

        StringBuilder sb = new StringBuilder();

        for (int i = 0; i < input.length(); i++) {

            char ch = input.charAt(i);

            if (isVowel(ch)) {

                sb.append(ch);

            }

        }

        return sb.toString();

    }

    public static boolean isVowel(char ch) {

        ch = Character.toLowerCase(ch);

        return ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u';

    }

}