

* Assignment *

* String in Java *

* Q.1 * Write a Simple String program to taken input from user?

```
import java.util.Scanner;
public class Demo {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter your name");
        String s = sc.next();
        System.out.println("Your name is" + s);
    }
}
```

Q.2 How do you concatenate two string in Java? Give example?

Ans: Concatenation is the process of combining two or more string into a single string. This can be done in multiple ways, including using the "+" operator or concat() method.

Example:



```

Class Demo2 {
    public static void main (String [] args) {

        String s1 = new String ("Ajay");
        System.out.println (s1);

        // Concatenation
        s1 = s1.concat ("Kumar");
        System.out.println (s1);
    }
}

```

output

Ajay
AjayKumar

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

Ans.3 with the help of length () method we find out the length of the string.

Example:

```

import java.util.Scanner;
Class Demo3 {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter your name");
        String s = sc.next ();
        System.out.println ("Your name is: " + s);
    }
}

```


System.out.println("Length of your name is" + s.length());

```
}  
}
```

Output

Enter your Name
Ajay
Your name is: Ajay
Length of your name is: 4

Q4 How do you compare two strings in Java? Give an example?

Ans 4 To compare two strings in Java we use following

a. == operator

It compares the References of the object.

b. equals()

It compares the contents of two objects.

Example

```
class Demo {
```

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

```
class Demo {
```

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

```
String s1 = new String ("Ajay");
```

```
String s2 = new String ("Ajay");
```

```
System.out.println (s1 == s2);
```

```
System.out.println (s1.equals(s2));
```

```
}
```

```
}
```

output

false

true

Q.5 write a program to find out the length of the string "refrigerator"

```
class Demo2 {
```

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

```
{
```

```
String s1 = "refrigerator";
```

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

```
}
```

```
}
```


output

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

```
class Demo3 {
```

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

```
        String s = "umbrella";
```

```
        boolean ispresent = false;
```

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

```
            if (s.charAt(i) == 'e') {
```

```
                ispresent = true;
```

```
                break;
```

```
            }  
        }  
    }
```

```
        if (ispresent) {
```

```
            System.out.println("the letter 'e' is  
                                present in the umbrella");
```

```
        } else {
```

```
            System.out.println("not present");
```

```
        }
```

```
    }
```

```
}
```

Q7 Write a program to delete all consonants from the string "Hello, have a good day".

```

class Demo3 {
    public static void main (String[] args) {
        String originalString = "Hello, have a good day";
        String new = removeConsonants (originalString);
        System.out.println ("original String" + originalString);
        System.out.println ("String without consonants"
                               + new);

        public static String removeConsonants (String str) {
            StringBuilder result = new StringBuilder ();
            for (int i = 0; i < str.length (); i++) {
                char ch = str.charAt (i);
                if (isVowel (ch) || Character.isWhitespace (ch))
                    // ch == ' ' ) {
                    result.append (ch);
                }
            }
            return result.toString ();
        }
    }
}

```

```

public static boolean isVowel (char ch) {
    ch = Character.toLowerCase (ch);
    return ch == 'a' || ch == 'e' || ch == 'i' ||
           ch == 'o' || ch == 'u';
}
}

```