

PW SKILLS

JAVA With DSA & System Design

Assignment – Strings in Java (Part - 2)

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

Ans: A simple String program to take input from user:

```
import java.util.Scanner;
public class UserFromUserInString {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter your details (name, course, branch)");
        String name = scan.nextLine();
        String courseName = scan.nextLine();
        String branch_name = scan.nextLine();
        System.out.println("Name: "+name);
        System.out.println("Course: "+courseName);
        System.out.println("Branch: "+branch_name);
    }
}
```

Output:

```
Enter your details (name, course, branch
SHADAB
BTECH
CSE
Name: SHADAB
Course: BTECH
Branch: CSE
```

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

Ans: Concatenation is a technique in which more than one string can be added into a single string.

There are 2 methods from which string can be concatenated:

- o '+' operator
- o concat() method

- **Using '+' operator:**

```
String s1 = "Hello";
String s2 = "World";
String s3 = s1 + " " + s2;
System.out.println(s3);
```

Output:

```
Hello World
```

- **concat() method:**

```
String s1 = "Hello";
String s2 = "World";
```

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```
String s3 = s1.concat(s2);
```

- `System.out.println(s3);`

Output:

HelloWorld

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

Ans: The length of a string in Java can be found by the use of **length() method** of a String class. It returns the no of characters present in the String

Example:

```
class lengthOfString{
    public static void main(String args[] )
    {
        String s = "PW Skills";
        System.out.println(s.length());
    }
}
```

Output:

9

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

Ans: The length of a string in Java can find out by the use of **compareTo() method** of a String class. It returns a positive number, negative number, or 0.

Example:

```
public class CompareTo{
    public static void main(String args[]){
        String s1="hello";
        String s2="hello";
        String s3="sids";
        String s4="hemlo";
        String s5="flag";
        System.out.println(s1.compareTo(s2));//0 because both are equal
        System.out.println(s1.compareTo(s3));//-5 because "h" is 5 times lower than "m"
        System.out.println(s1.compareTo(s4));//-1 because "l" is 1 times lower than "m"
        System.out.println(s1.compareTo(s5));//2 because "h" is 2 times greater than "f"
    }
}
```

Output:

0

-11

-1

2

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

Ans: Program to find the length of the string “refrigerator”.

```
public class FindLengthOfRefrigerator {  
    public static void main(String[] args) {  
        String s ="refrigerator";  
        int fg = s.length();  
        System.out.println(fg);  
    }  
}
```

Output:

12

6. Write a program to check if the letter ‘e’ is present in the ‘Umbrella’.

Ans: Program to check if the letter ‘e’ is present in the ‘Umbrella’.

```
public class CheckLetterEInUmbrella {  
    public static void main(String[] args) {  
        String umnrla = "Umbrella";  
        boolean chke = umnrla.contains("e");  
        System.out.println(chke);  
  
        if(umnrla.contains("e"))  
        {  
            System.out.println("This string contains 'e'");  
        }  
        else  
        {  
            System.out.println("his string does not contains 'e'");  
        }  
    }  
}
```

Output:

true

This string contains ‘e’

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

Ans: Program to delete all consonants from the string “Hello, have good day”.

```
public class DeleteConsonants {  
    public static void main(String[] args) {  
        String s = "Hello, have good day";  
        String cons = "[BCDFGHJKLMNPQRSTVXZbcd fghjklmnpqrstvxz]";
```

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```
String new_str = s.replaceAll(cons, "");  
System.out.println(new_str);  
}  
}
```

Output:

eo, ae oo ay