

Strings in Java 2

Q1. Write a simple program to take input from the user?

Ans:



```
J Q1.java 1, U X
J Q1.java > Q1 > main(String[])
1  /* Write a simple program to take input from the user */
2  import java.util.*;
3  class Q1 {
4      public static void main(String[] args) {
5      System.out.println("Enter Your Name : ");
6      Scanner sc = new Scanner(System.in);
7      String name = sc.nextLine();
8      System.out.println("Your Name is : " + name);
9      }
10 }
11

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

abc@06c3aedc3729:~/workspace$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/13e66190/redhat
.java/jdt_ws/workspace_41b14c37/bin Q1
Enter Your Name :
Saptarshi
Your Name is : Saptarshi
abc@06c3aedc3729:~/workspace$
```

Q2. How do you concatenate two strings in java? Give an example?

Ans:



```
J Q1.java 1, U J Q2.java U X
J Q2.java > Q2 > main(String[])
1  public class Q2 {
2      public static void main(String[] args) {
3      String FirstName = "Saptarshi";
4      String LastName = " Banerjee";
5      String FullName = FirstName + LastName;
6      System.out.println(FullName);
7      }
8  }
9

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

abc@06c3aedc3729:~/workspace$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/13e66190/redhat
.java/jdt_ws/workspace_41b14c37/bin Q2
Saptarshi Banerjee
abc@06c3aedc3729:~/workspace$
```

Q3. How do you find the length of a string in java, Example?

Ans:



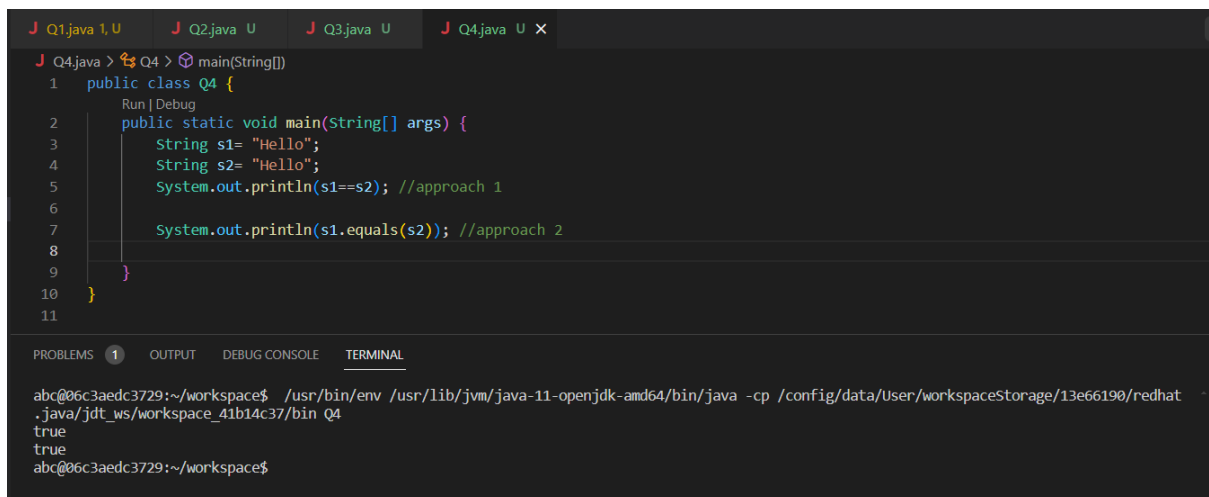
The screenshot shows an IDE with a Java file named Q3.java. The code defines a class Q3 with a main method that takes a String array as an argument. Inside the main method, a String variable 'name' is assigned the value "Saptarshi". Then, the length of 'name' is calculated using 'name.length()' and stored in an integer variable 'StringLength'. Finally, two println statements are used to print the string and its length. The terminal output shows the execution of the program, displaying 'String : Saptarshi' and 'Length : 9'.

```
J Q1.java 1, U J Q2.java U J Q3.java U X
J Q3.java > Q3 > main(String[])
1 public class Q3 {
    Run | Debug
2     public static void main(String[] args) {
3         String name = "Saptarshi";
4         int StringLength = name.length();
5         System.out.println("String : "+name);
6         System.out.println("Length : "+StringLength);
7     }
8 }
9

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL
abc@06c3aedc3729:~/workspace$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/13e66190/redhat
.java/jdt_ws/workspace_41b14c37/bin Q3
String : Saptarshi
Length : 9
abc@06c3aedc3729:~/workspace$
```

Q4. How do you compare two string in java? Give an Example?

Ans:



The screenshot shows an IDE with a Java file named Q4.java. The code defines a class Q4 with a main method that takes a String array as an argument. Inside the main method, two String variables 's1' and 's2' are both assigned the value "Hello". Then, two println statements are used to compare the strings. The first statement uses 's1==s2' (approach 1) and the second uses 's1.equals(s2)' (approach 2). The terminal output shows the execution of the program, displaying 'true' for both comparison methods.

```
J Q1.java 1, U J Q2.java U J Q3.java U J Q4.java U X
J Q4.java > Q4 > main(String[])
1 public class Q4 {
    Run | Debug
2     public static void main(String[] args) {
3         String s1= "Hello";
4         String s2= "Hello";
5         System.out.println(s1==s2); //approach 1
6
7         System.out.println(s1.equals(s2)); //approach 2
8     }
9
10 }
11

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL
abc@06c3aedc3729:~/workspace$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/13e66190/redhat
.java/jdt_ws/workspace_41b14c37/bin Q4
true
true
abc@06c3aedc3729:~/workspace$
```

Q5. Write a program to find the length of string “refrigerator”.

Ans:



The screenshot shows an IDE with a Java file named Q5.java. The code defines a class Q5 with a main method that initializes a string s1 to "refrigerator", calculates its length using s1.length(), and prints it using System.out.println. The terminal output shows the command to run the program and the resulting output: "the length of refrigerator : 12".

```
J Q1.java 1, U J Q2.java U J Q3.java U J Q4.java U J Q5.java U x
J Q5.java > Q5 > main(String[])
1 public class Q5 {
    Run | Debug
2     public static void main(String[] args) {
3         String s1 = "refrigerator";
4         int len = s1.length();
5         System.out.println("the length of "+s1+" : "+ len);
6     }
7 }
8

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL
abc@06c3aedc3729:~/workspace$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/13e66190/redhat
.java/jdt_ws/workspace_41b14c37/bin Q5
the length of refrigerator : 12
abc@06c3aedc3729:~/workspace$
```

Q6. Write a program to check if the letter ‘e’ is present in the word ‘Umbrella’?

Ans:



The screenshot shows an IDE with a Java file named Q6.java. The code defines a class Q6 with a main method that initializes a string s to "Umbrella", sets a boolean flag to false, and iterates through each character of the string. If a character is 'e', the flag is set to true and the loop is broken. Finally, the flag is printed using System.out.println. The terminal output shows the command to run the program and the resulting output: "true".

```
J Q1.java 1, U J Q2.java U J Q3.java U J Q4.java U J Q5.java U J Q6.java U x
J Q6.java > Q6 > main(String[])
1 public class Q6 {
    Run | Debug
2     public static void main(String[] args) {
3         String s = "Umbrella";
4         boolean flag = false;
5         for (int i = 0; i < s.length(); i++) {
6
7
8             if (s.charAt(i)=='e') {
9                 flag=true;
10                break;
11            }
12        }
13        System.out.println(flag);
14    }
15 }
16 }
17

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL
abc@06c3aedc3729:~/workspace$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/13e66190/redhat
.java/jdt_ws/workspace_41b14c37/bin Q6
true
abc@06c3aedc3729:~/workspace$
```