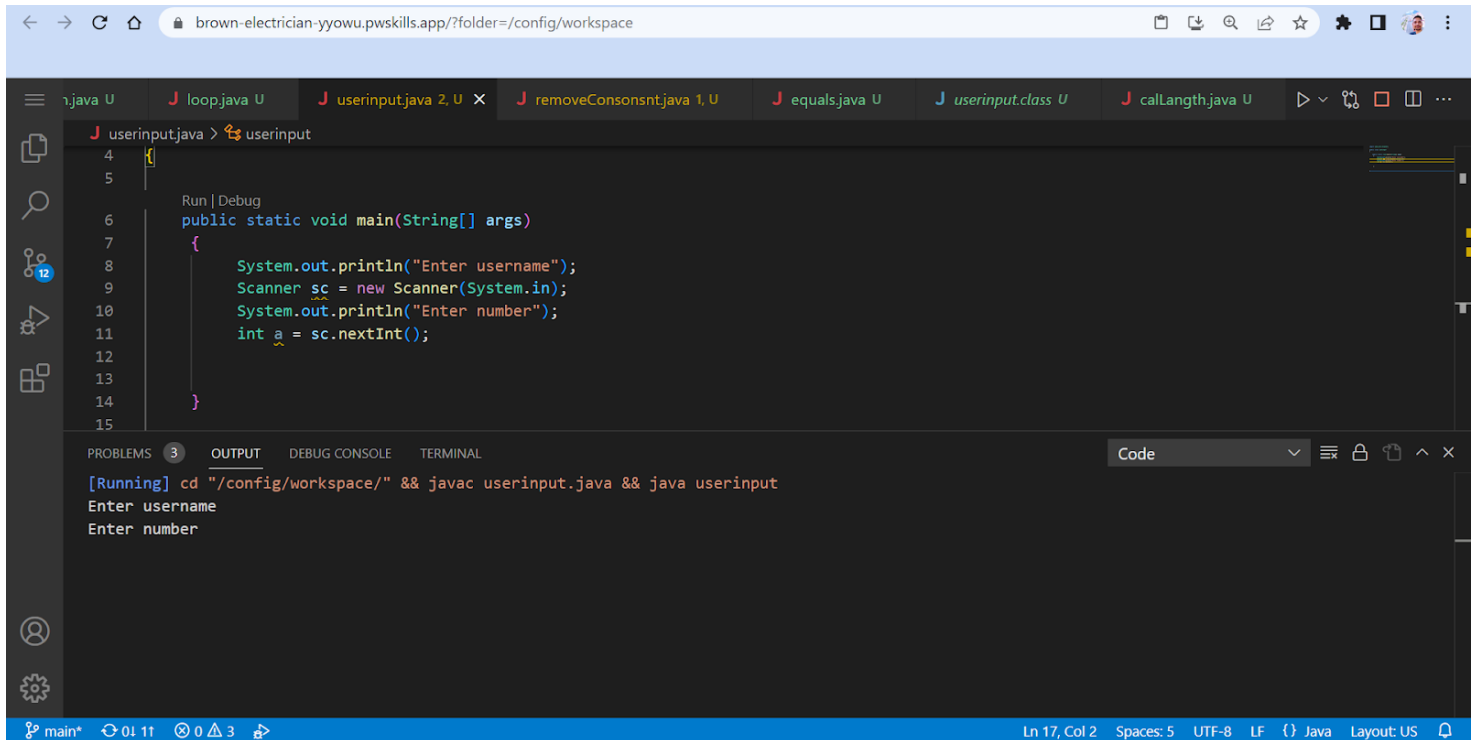


# Strings in Java Part-2

## Assignment Questions

1-> Write a simple program to take input from the user?



The screenshot shows an IDE with a Java file named `userinput.java`. The code is as follows:

```
4 {  
5  
6 public static void main(String[] args)  
7 {  
8     System.out.println("Enter username");  
9     Scanner sc = new Scanner(System.in);  
10    System.out.println("Enter number");  
11    int a = sc.nextInt();  
12  
13 }  
14  
15 }
```

The IDE's output window shows the following text:

```
[Running] cd "/config/workspace/" && javac userinput.java && java userinput  
Enter username  
Enter number
```

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

```
class HelloWorld {  
public static void main( String args[] ) {  
    String first = "Hello";  
    String second = "World";  
  
    String third = first + second;  
    System.out.println(third);  
  
    // yet another way to concatenate strings  
    first += second;  
    System.out.println(first);  
}  
}
```

3->How do you find the length of a string in java,Example?

The screenshot shows an IDE with a tab for `callLength.java`. The code defines a `callLength` class with a `main` method that sets `String name = "Prakash";`, calculates `int length = name.length();`, and prints `"The length of the String "+name+" is: " +length);`. The output window shows the command `cd "/config/workspace/" && javac callLength.java && java callLength` and the output `The length of the String Prakash is: 7`. The status bar at the bottom indicates `Ln 9, Col 6`, `Spaces: 4`, `UTF-8`, `LF`, `{ }` Java, and `Layout: US`.

```
1 public class callLength{
2
3     Run | Debug
4     public static void main(String[] args) {
5
6         String name = "Prakash";
7         int length = name.length();
8         System.out.println("The length of the String "+name+" is: " +length);
9     }
10
11 }
```

[Running] cd "/config/workspace/" && javac callLength.java && java callLength  
The length of the String Prakash is: 7

[Done] exited with code=0 in 0.772 seconds

4->How do you compare two string in java? Give an Example?

We can compare two String by two methods .

a> == operators

b> .equals() methods

Example -

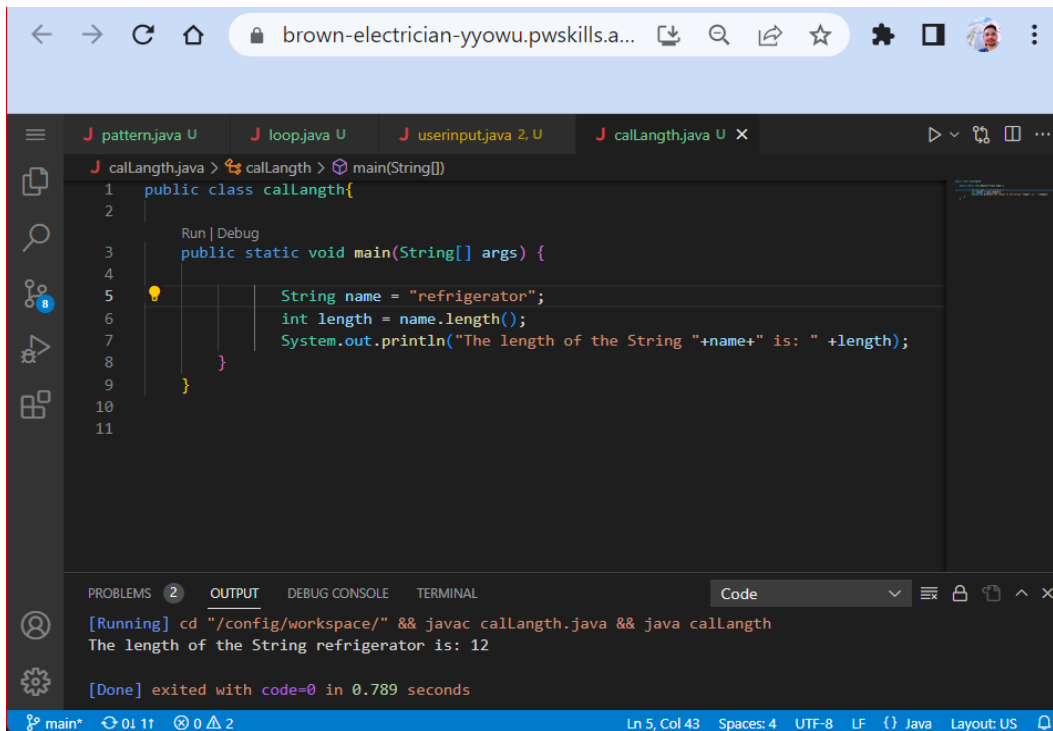
The screenshot shows an IDE with a tab for `equals.java`. The code defines an `equals` class with a `main` method that creates `String str1 = new String ("Book");` and `String str2 = new String("Book");`, then prints `System.out.println(str1==str2);` and `System.out.println(str1.equals(str2));`. The output window shows the command `cd "/config/workspace/" && javac equals.java && java equals` and the output `false` and `true`. The status bar at the bottom indicates `Ln 7, Col 36`, `Spaces: 4`, `UTF-8`, `LF`, `{ }` Java, and `Layout: US`.

```
1 public class equals {
2
3     Run | Debug
4     public static void main(String[] args) {
5
6         String str1 =new String ("Book");
7         String str2 = new String("Book");
8         System.out.println(str1==str2);
9         System.out.println(str1.equals(str2));
10
11     }
12 }
```

[Running] cd "/config/workspace/" && javac equals.java && java equals  
false  
true

[Done] exited with code=0 in 0.758 seconds

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



The screenshot shows an IDE with a Java file named `callLength.java`. The code defines a class `callLength` with a `main` method. Inside the `main` method, a string `name` is assigned the value "refrigerator", its length is calculated using `name.length()`, and the result is printed using `System.out.println`. The terminal output shows the command `cd "/config/workspace/" && javac callLength.java && java callLength` and the output `The length of the String refrigerator is: 12`.

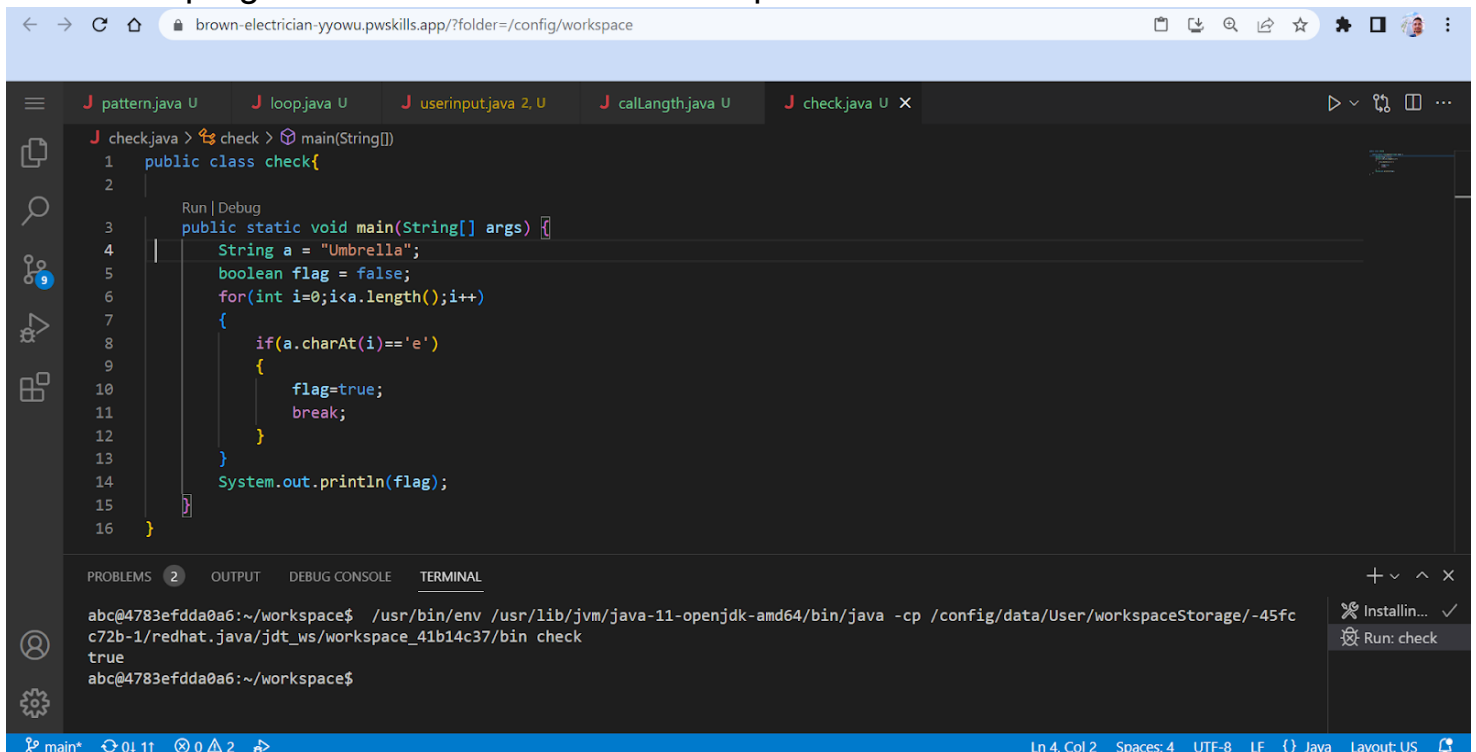
```
1 public class callLength{
2
3     Run | Debug
4     public static void main(String[] args) {
5         String name = "refrigerator";
6         int length = name.length();
7         System.out.println("The length of the String "+name+" is: " +length);
8     }
9 }
10
11
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL Code

[Running] cd "/config/workspace/" && javac callLength.java && java callLength  
The length of the String refrigerator is: 12

[Done] exited with code=0 in 0.789 seconds

6->Write a program to check if the letter ‘e’ is present in the word ‘Umbrella’?



The screenshot shows an IDE with a Java file named `check.java`. The code defines a class `check` with a `main` method. Inside the `main` method, a string `a` is assigned the value "Umbrella", a boolean `flag` is initialized to `false`, and a `for` loop iterates over 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 `/usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/-45fc c72b-1/redhat.java/jdt_ws/workspace_41b14c37/bin check` and the output `true`.

```
1 public class check{
2
3     Run | Debug
4     public static void main(String[] args) {
5         String a = "Umbrella";
6         boolean flag = false;
7         for(int i=0;i<a.length();i++)
8         {
9             if(a.charAt(i)=='e')
10             {
11                 flag=true;
12                 break;
13             }
14         }
15         System.out.println(flag);
16     }
17 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL

abc@4783efdda0a6:~/workspace\$ /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp /config/data/User/workspaceStorage/-45fc c72b-1/redhat.java/jdt\_ws/workspace\_41b14c37/bin check  
true  
abc@4783efdda0a6:~/workspace\$

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

The screenshot shows an IDE with a Java file named `removeConsnsnt.java`. The code is as follows:

```
8   int j=0;
9   System.out.println("Enter a string");
10  Scanner so=new Scanner(System.in);
11  s= so.nextLine();
12  char ch[]=new char[20];
13
14  for(int i=0;i<s.length();i++)
15  {
16
17
18      if(s.charAt(i)=='a' || s.charAt(i)=='A' || s.charAt(i)=='e' || s.charAt(i)=='E' || s.charAt(i)=='i' ||
19         s.charAt(i)=='I' || s.charAt(i)=='o' || s.charAt(i)=='O' || s.charAt(i)=='u' || s.charAt(i)=='u')
20
21      {}
22      ch[j++]=s.charAt(i);
```

The terminal output shows the program execution:

```
Enter a string
Have a good Day
aeaoaa
abc@fb6076c6e3fb:~/workspace$
```

The status bar at the bottom indicates the file is at line 21, column 6, with 4 spaces, using UTF-8 encoding and LF line endings. The language is set to Java and the layout is US.

N7te:- Please create a Google Document and write your answers and upload the shareable link of the Google Document with view access during the submission of the assignmentR