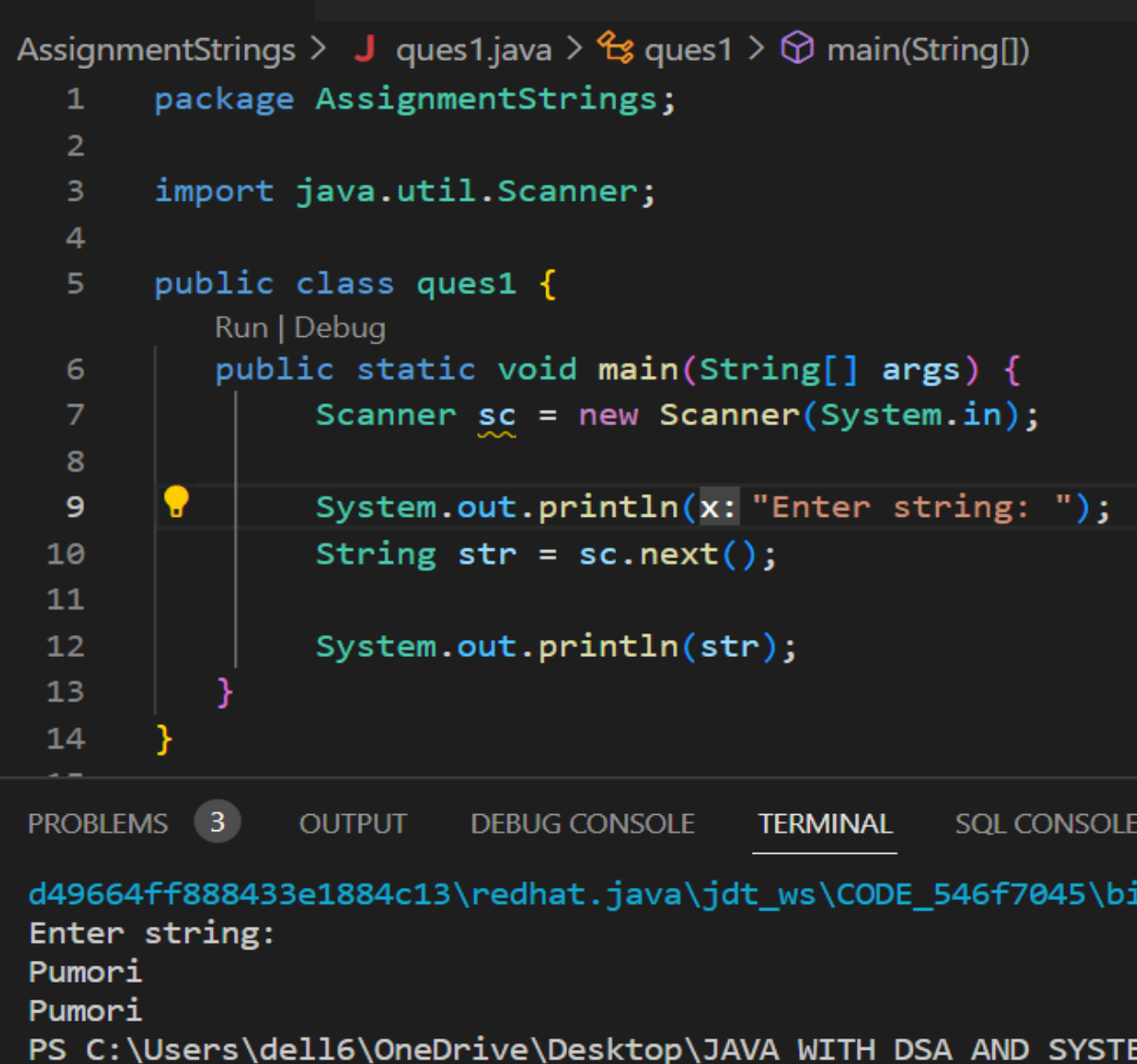# ASSIGNMENT
STRING

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

```java
AssignmentStrings > J ques1.java > ques1 > main(String[])
1    package AssignmentStrings;
2
3    import java.util.Scanner;
4
5    public class ques1 {
         Run | Debug
6        public static void main(String[] args) {
7            Scanner sc = new Scanner(System.in);
8
9            System.out.println(x: "Enter string: ");
10           String str = sc.next();
11
12           System.out.println(str);
13       }
14   }
```

```
PROBLEMS  3     OUTPUT    DEBUG CONSOLE    TERMINAL    SQL CONSOLE

d49664ff888433e1884c13\redhat.java\jdt_ws\CODE_546f7045\bi
Enter string:
Pumori
Pumori
PS C:\Users\dell6\OneDrive\Desktop\JAVA WITH DSA AND SYSTE
```

Q.2 How do you concatenate two strings in Java? Give an example.
Ans. There are two methods to concatenate strings in Java:-
   ● + operator
   ● str.concat() method

Example:-

```java
package AssignmentStrings;
public class ques2 {
    Run | Debug
    public static void main(String[] args) {
        //  concatenation using + operator
        System.out.println(x: "Concatenation using + operator");
        String s1="Pumori";
        String s2=" ";
        String s3="Jagdev";
        System.out.println(s1+s2+s3);

        // concatenation using concat() method
        System.out.println(x: "Concatenation using concat() method");
        String  first="Hello";
        String last="World";
        System.out.println(first.concat(last));
    }
}
```

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE   GITLENS

```
PS C:\Users\dell6\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DESIGN\CODE>   c:; cd
TH DSA AND SYSTEM DESIGN\CODE'; & 'C:\Users\dell6\AppData\Local\Programs\Eclipse
xe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\dell6\AppData\Roam
d49664ff888433e1884c13\redhat.java\jdt_ws\CODE_546f7045\bin' 'AssignmentStrings.
Concatenation using + operator
Pumori Jagdev
Concatenation using concat() method
HelloWorld
```

Q.3 How do you find the length of a string in java ? Give an example.
Ans. Length of a string in Java is found using the length() method.

Example:-


```java
package AssignmentStrings;
public class ques3 {
    Run | Debug
    public static void main(String[] args) {

        String str = "This is course Of java with dsa and system design";
        int length=str.length();
        System.out.println("Length of str String is "+length);
    }
}
```

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE   GITLENS
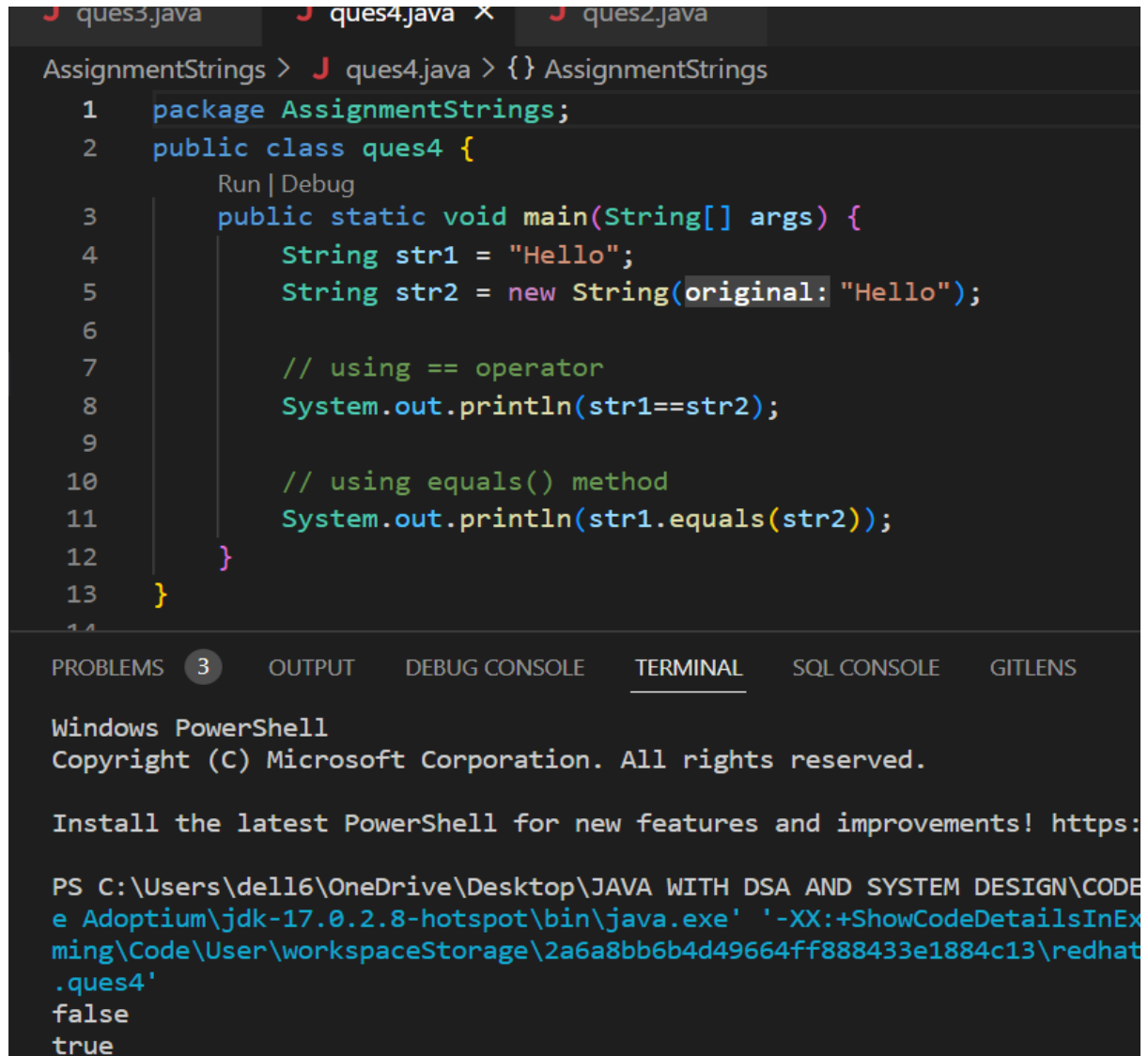
```
PS C:\Users\dell6\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DESIGN\CODE>   & 'C:\Users
e Adoptium\jdk-17.0.2.8-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessag
ming\Code\User\workspaceStorage\2a6a8bb6b4d49664ff888433e1884c13\redhat.java\jdt_ws\
.ques3'
Length of str String is 49
PS C:\Users\dell6\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DESIGN\CODE>
```

Q.4 How do you compare two strings in java? Give an example.
Ans. Two strings in Java can be compared by:-
- ==   — compares references of the object
- equals()   — compares content of the object

Example

```
ques3.java          ques4.java ✕        ques2.java

AssignmentStrings > J ques4.java > {} AssignmentStrings
  1    package AssignmentStrings;
  2    public class ques4 {
           Run | Debug
  3        public static void main(String[] args) {
  4            String str1 = "Hello";
  5            String str2 = new String(original: "Hello");
  6
  7            // using == operator
  8            System.out.println(str1==str2);
  9
 10            // using equals() method
 11            System.out.println(str1.equals(str2));
 12        }
 13    }
```

```
PROBLEMS  3    OUTPUT    DEBUG CONSOLE    TERMINAL    SQL CONSOLE    GITLENS

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PS C:\Users\dell6\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DESIGN\CODE
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ming\Code\User\workspaceStorage\2a6a8bb6b4d49664ff888433e1884c13\redhat
.ques4'
false
true
```

Q.5 WAP to find the length of the string "refrigerator".
Ans.

AssignmentStrings > J ques5.java > ⅏ ques5 > ⦿ main(String[])

```java
1    package AssignmentStrings;
2
3  v public class ques5 {
         Run | Debug
4  v        public static void main(String[] args) {
5
6              String str="refrigerator";
7
8              System.out.println(str.length());
9          }
10     }
11
```

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE   G

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ming\Code\User\workspaceStorage\2a6a8bb6b4d49664ff888433e1884c
.ques5'
12
PS C·\Users\dell16\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DF

Q.6 WAP to check if the letter 'e' is present in the word "Umbrella".
Ans.

AssignmentStrings > J ques6.java > {} AssignmentStrings

```java
1    package AssignmentStrings;
2    public class ques6 {
         Run | Debug
3        public static void main(String[] args) {
4            String str = "Umbrella";
5
6            for(int i=0;i<str.length();i++){
7                if(str.charAt(i)=='e'){
8                    System.out.println(x: "Yes Present");
9                    return;
10               }
11           }
12           System.out.println(x: "Not Present");
13       }
14   }
15
```

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE   GI

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PS C:\Users\dell16\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DES
e Adoptium\jdk-17.0.2.8-hotspot\bin\java.exe' '-XX:+ShowCodeDet
ming\Code\User\workspaceStorage\2a6a8bb6b4d49664ff888433e1884c1
.ques6'
Yes Present
PS C·\Users\dell16\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DES

Q.7 WAP to delete all consonants from the string "Hello,have a good day".
Ans.

```java
package AssignmentStrings;
public class ques7 {
    Run | Debug
    public static void main(String[] args) {

        String str = "Hello,have a good day";
        String ans="";

        for(int i=0;i<str.length();i++){
            if(str.charAt(i)=='a' || str.charAt(i)=='e' || str.charAt(i)=='i' || str.charAt(i)=='o' || str.charAt
            (i)=='u' || str.charAt(i)=='A' || str.charAt(i)=='E' || str.charAt(i)=='I' || str.charAt(i)=='O' ||
            str.charAt(i)=='U'){
                ans+=str.charAt(i);
            }else{
                continue;
            }
        }
        System.out.println(ans);
    }
}
```

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   SQL CONSOLE   GITLENS   +

d49664ff888433e1884c13\redhat.java\jdt_ws\CODE_546f7045\bin' 'AssignmentStrings.ques7'
eoaeaooa
PS C:\Users\dell6\OneDrive\Desktop\JAVA WITH DSA AND SYSTEM DESIGN\CODE>