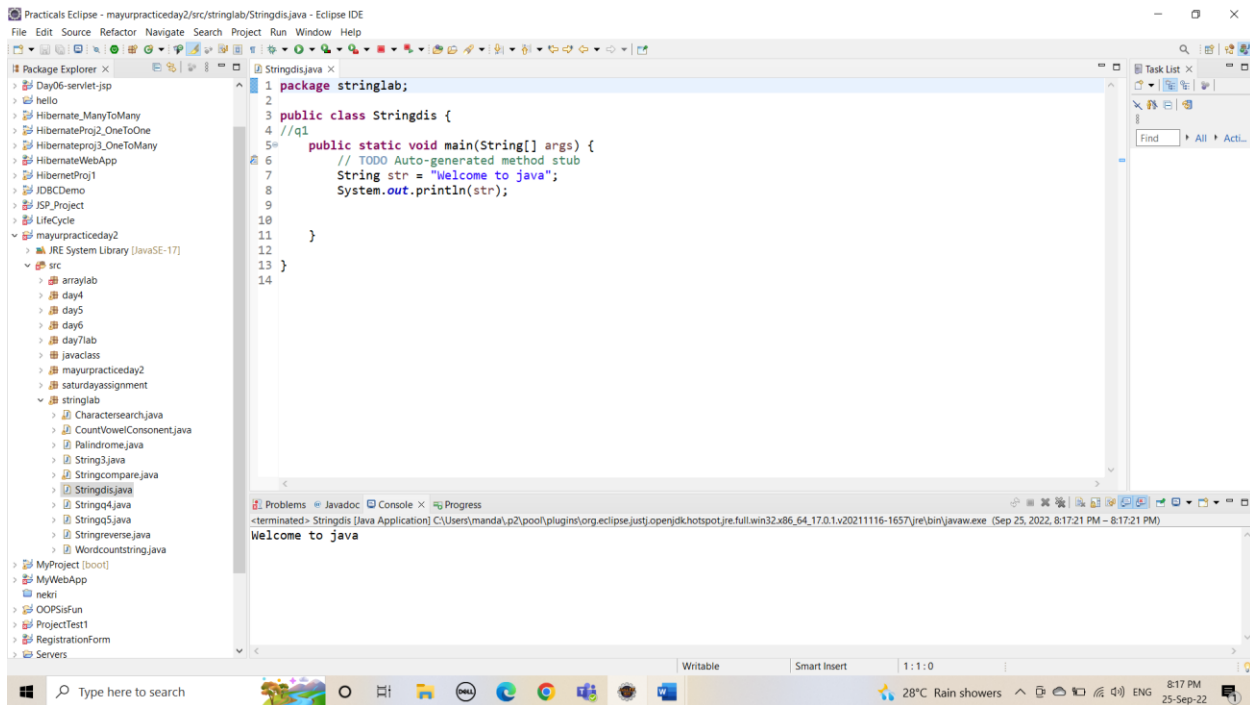


Q.1 wap to initialize string by assigning value in program and display it

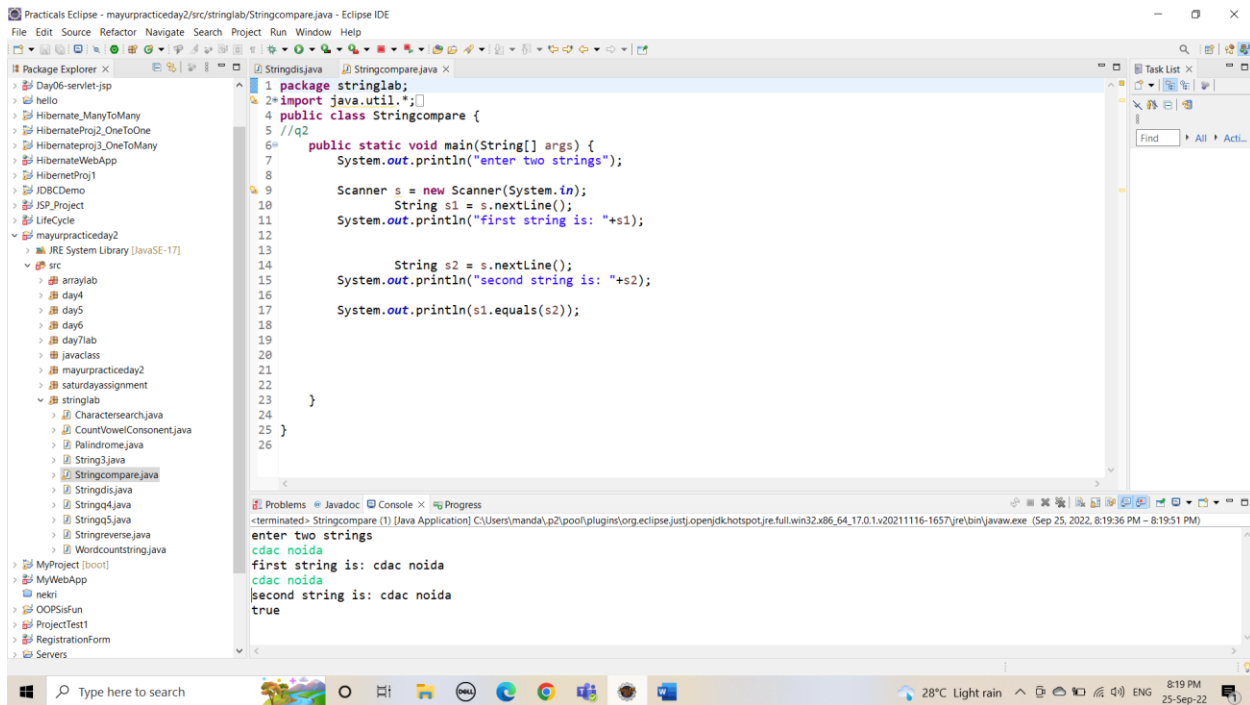


The screenshot shows the Eclipse IDE with a project named 'mayurpracticeday2'. The Package Explorer on the left shows the project structure, including a 'stringlab' package. The main editor displays the file 'Stringdis.java' with the following code:

```
1 package stringlab;
2
3 public class Stringdis {
4     //q1
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         String str = "Welcome to java";
8         System.out.println(str);
9     }
10 }
11
12
13
14
```

The Console window at the bottom shows the output: 'Welcome to java'.

Q.2 wap to ask two string values from user and check if they are equal or not



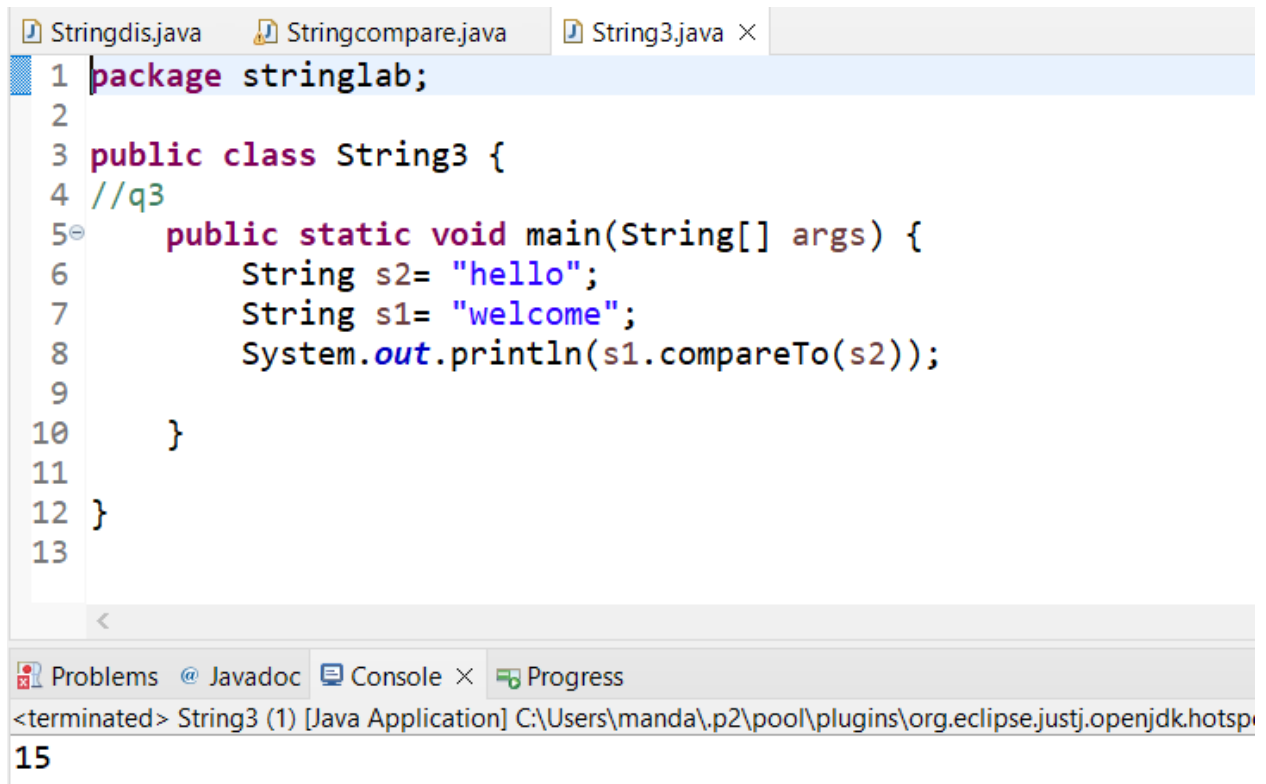
The screenshot shows the Eclipse IDE with the same project. The Package Explorer shows the 'stringlab' package. The main editor displays the file 'Stringcompare.java' with the following code:

```
1 package stringlab;
2 import java.util.*;
3
4 public class Stringcompare {
5     //q2
6     public static void main(String[] args) {
7         System.out.println("enter two strings");
8
9         Scanner s = new Scanner(System.in);
10        String s1 = s.nextLine();
11        System.out.println("first string is: "+s1);
12
13        String s2 = s.nextLine();
14        System.out.println("second string is: "+s2);
15        System.out.println(s1.equals(s2));
16    }
17 }
18
19
20
21
22
23
24
25
26
```

The Console window at the bottom shows the output of the program:

```
<terminated> Stringcompare (1) [Java Application] C:\Users\mandal\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.1.v20211116-1657\jre\bin\javaw.exe (Sep 25, 2022, 8:19:36 PM - 8:19:51 PM)
enter two strings
cdac noida
first string is: cdac noida
cdac noida
second string is: cdac noida
true
```

Q.3 wap to compare two strings



The screenshot shows the Eclipse IDE with three tabs: Stringdis.java, Stringcompare.java, and String3.java. The String3.java tab is active, displaying the following code:

```
1 package stringlab;  
2  
3 public class String3 {  
4     //q3  
5     public static void main(String[] args) {  
6         String s2= "hello";  
7         String s1= "welcome";  
8         System.out.println(s1.compareTo(s2));  
9     }  
10 }  
11  
12 }  
13
```

Below the code editor, the Console tab is active, showing the output of the program:

```
<terminated> String3 (1) [Java Application] C:\Users\manda\.p2\pool\plugins\org.eclipse.justj.openjdk.hotsp  
15
```

Q.4 wap to print string character by character

```
Stringdis.java Stringcompare.java String3.java Stringq4.java ×
1 package stringlab;
2 //q4
3 public class Stringq4 {
4
5     public static void main(String[] args) {
6         String st = "CDACNoida";
7         for(int i=0; i<st.length(); i++)
8         {
9             char ch = st.charAt(i);
10            System.out.println("char at "+i+" index is "+ch );
11        }
12    }
13
14 }
```

Problems Javadoc Console × Progress

<terminated> Stringq4 [Java Application] C:\Users\manda\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.

char at 0 index is C  
char at 1 index is D  
char at 2 index is A  
char at 3 index is C  
char at 4 index is N  
char at 5 index is o  
char at 6 index is i  
char at 7 index is d  
char at 8 index is a

Q.5 wap to check if string is palindrome or not

```
Stringdis.java Stringcompare.java String3.java Stringq4.java Stringq5.java Palindrome.java ×
1 package stringlab;
2 //q5
3 public class Palindrome {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         String s1= new String("ROTATOR");
8
9         int l= s1.length()/2;
10        int i;
11        int j=s1.length()-1;
12        for( i=0,j=s1.length()-1 ; i<l ; i++,j--)
13        {
14            if(s1.charAt(i)!=s1.charAt(j))
15            {
16                System.out.println("string is not palindrom");
17                break;
18            }
19        }
20        if(i==l)
21            System.out.println("string is panlindrom");
22    }
23 }
24
25 }
26
```

<

Problems @ Javadoc Console × Progress

<terminated> Palindrome (1) [Java Application] C:\Users\manda\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_1

string is panlindrom

Q.6 wap to count number of vowels and consonants in string

```

1 package stringlab;
2 import java.util.Scanner;
3 public class CountVowelConsonent {
4     //6
5     public static void main(String[] args) {
6
7         Scanner s = new Scanner(System.in);
8         System.out.print("enter string: ");
9         String st = s.nextLine();
10        st=st.toLowerCase();
11        int vCount=0, cCount=0;
12        for(int i=0; i<st.length(); i++) {
13            if(st.charAt(i) == 'a' || st.charAt(i) == 'e' || st.charAt(i) == 'i' || st.charAt(i) == 'o' || st.charAt(i) == 'u')
14            {
15                vCount++;
16            }
17            else if(st.charAt(i) >= 'a' && st.charAt(i) <= 'z'){
18                cCount++;
19            }
20        }
21        System.out.println("no. of vowels are "+vCount);
22        System.out.println("no. of consonants are "+cCount);
23    }
24 }
25 }
26

```

Problems Javadoc Console × Progress

<terminated> CountVowelConsonent [Java Application] C:\Users\manda\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.1.v20211116-1657\jre\bin\java

enter string: welcome to CDAC noida

no. of vowels are 8

no. of consonants are 10

Q.7 wap to count number of words in given string

```
1 package stringlab;
2 //7
3 public class Wordcountstring {
4
5     public static void main(String[] args) {
6         String str = "I love my country";
7
8         int count = 1;
9
10        for (int i = 0; i < str.length() - 1; i++)
11        {
12            if ((str.charAt(i) == ' ') && (str.charAt(i + 1) != ' '))
13            {
14                count++;
15            }
16        }
17        System.out.println("Number of words in a string : " + count);
18    }
19
20 }
21
```

Problems @ Javadoc Console × Progress

<terminated> Wordcountstring [Java Application] C:\Users\manda\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32  
Number of words in a string : 4

Q.8 wap to reverse word in given string

```
1 package stringlab;
2 import java.lang.StringBuffer;
3 public class Stringreverse {
4     //8
5     public static void main(String[] args) {
6         StringBuffer s1= new StringBuffer("Welcome to CDAC Noida");
7         System.out.println("String before reversing: "+s1);
8
9         s1.reverse();
10        System.out.println("String after reversing: "+ s1);
11
12    }
13
14 }
15
```

Problems @ Javadoc Console × Progress

<terminated> Stringreverse [Java Application] C:\Users\manda\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full

String before reversing: Welcome to CDAC Noida

String after reversing: adioN CADc ot emocleW

Q.9 wap to ask string from user and search for particular character in given string .if found print " Found message " else print not found"

```
1 package stringlab;
2 import java.util.*;
3 public class Charactersearch {
4     //9
5     public static void main(String[] args) {
6         Scanner s = new Scanner(System.in);
7         System.out.print("enter the string: ");
8         String str = s.nextLine();
9         char ch;
10        System.out.print("enter character to search: ");
11        ch=s.next().charAt(0);
12        int flag=0;
13        for(int i=0; i<str.length(); i++)
14        {
15            if (ch==str.charAt(i))
16                flag++;
17        }
18        if(flag==1)
19        {
20            System.out.println("character "+ch+ " found");
21            System.out.println("char index: "+str.indexOf(ch));
22        }
23        else
24            System.out.println("character "+ch+ " not found");
25    }
26
27 }
```

Problems @ Javadoc Console × Progress

```
<terminated> Charactersearch [Java Application] C:\Users\manda\.p2\pool\plugins\org.eclipse.just
enter the string: welcome to cdac noida
enter character to search: t
character t found
char index: 8
```