

QUESTIONS(Programs)

QUESTION 1:

Description: Find the length of the below string

String 1: AIRightTechnology - **17**

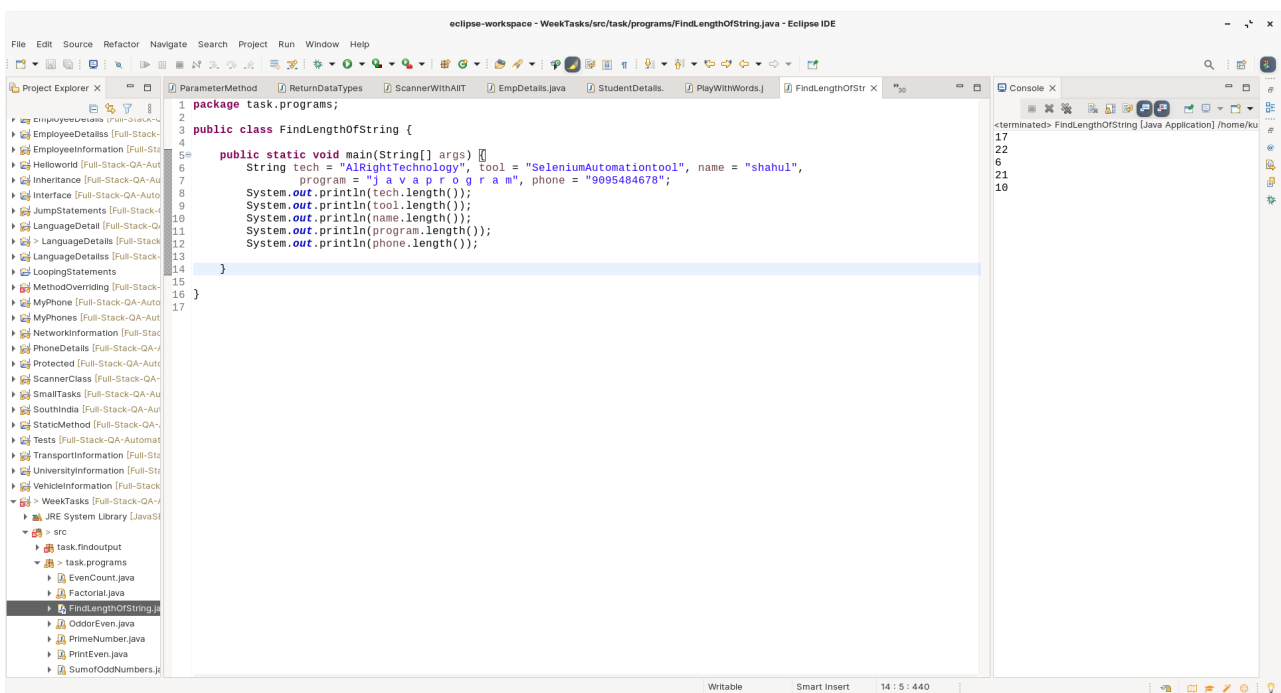
String 2: SeleniumAutomationtool - **22**

String 3: shahul - **6**

String 4: j a v a p r o g r a m - **21**

String 5: 9095484678 - **10**

Program & Output :-



The screenshot shows the Eclipse IDE interface. The main editor displays a Java file named `FindLengthOfString.java` with the following code:

```
1 package task.programs;
2
3 public class FindLengthOfString {
4
5     public static void main(String[] args) {
6         String tech = "AIRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
7         program = "j a v a p r o g r a m", phone = "9095484678";
8         System.out.println(tech.length());
9         System.out.println(tool.length());
10        System.out.println(name.length());
11        System.out.println(program.length());
12        System.out.println(phone.length());
13    }
14 }
15
16
17 }
```

The left sidebar shows the Project Explorer with the following structure:

- src
 - task.findoutput
 - task.programs
 - EvenCount.java
 - Factorial.java
 - FindLengthOfString.java
 - OddorEven.java
 - PrimeNumber.java
 - PrintEven.java
 - SumofOddNumbers.java

The right sidebar shows the Console output:

```
<terminated> FindLengthOfString (Java Application) /home/ku
17
17
22
6
21
10
```

QUESTION 2:

Description: Find the particular character index in the given string

String 1: AIRightTechnology

Find the last index of o - **14**

String 2: SeleniumAutomationtool

Find the index of o - **20**

String 3: shahul

Find the index of n - **-1**

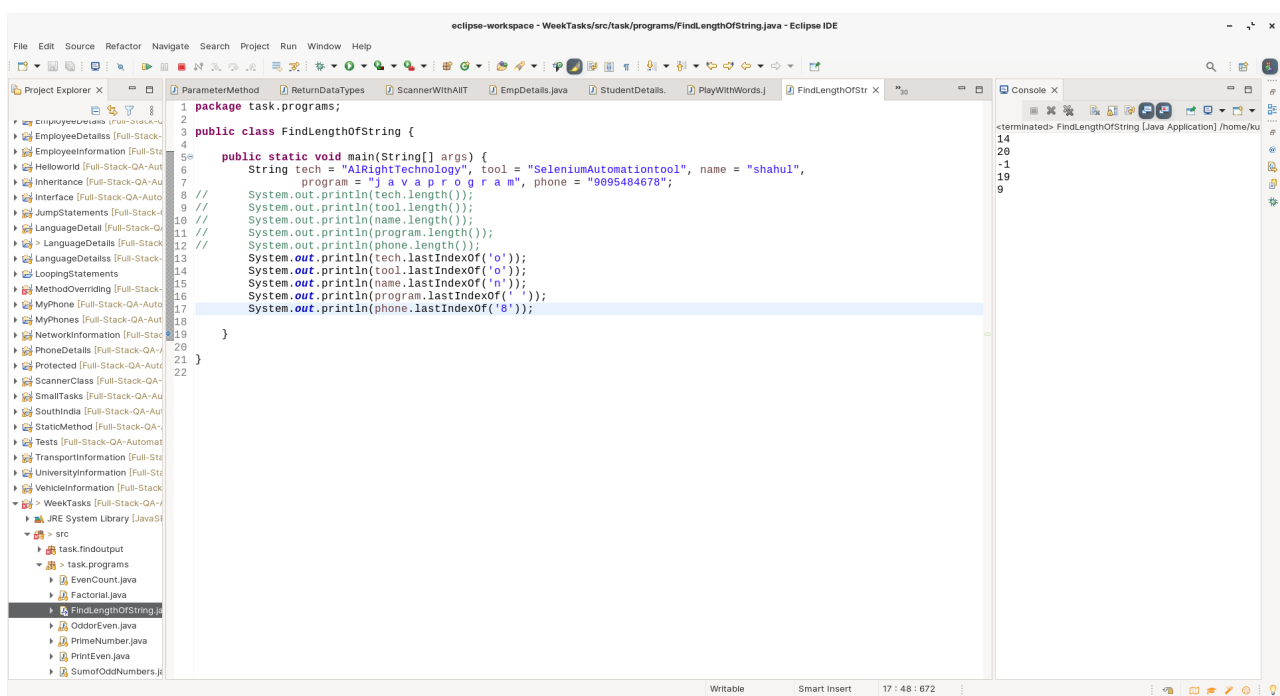
String 4: j a v a p r o g r a m

Find the last index of (emptyspace) - **19**

String 5: 9095484678

Find the index of 8 - **9**

Program & Output :-



The screenshot shows the Eclipse IDE interface. The main editor displays a Java file named `FindLengthOfString.java` with the following code:

```
1 package task.programs;
2
3 public class FindLengthOfString {
4
5     public static void main(String[] args) {
6         String tech = "AIRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
7         program = "j a v a p r o g r a m", phone = "9095484678";
8         // System.out.println(tech.length());
9         // System.out.println(tool.length());
10        // System.out.println(name.length());
11        // System.out.println(program.length());
12        // System.out.println(phone.length());
13        System.out.println(tech.lastIndexOf('o'));
14        System.out.println(tool.lastIndexOf('o'));
15        System.out.println(name.lastIndexOf('n'));
16        System.out.println(program.lastIndexOf(' '));
17        System.out.println(phone.lastIndexOf('8'));
18    }
19 }
20
21
22 }
```

The console on the right shows the output of the program:

```
<terminated> FindLengthOfString [Java Application] /home/ku
14
20
-1
19
9
```

QUESTION 4:

Description : Get two input from user and check the equality
: print in the output whether it is Equal or not

Example:

Input :

String 1 : Java

String 2 : Java

Example:

Input :

String 1 : Java

String 2 : java

Example:

Input :

String 1 : Aiite Technology

String 2 : AiiteTechnology.

Example(use equalsIgnoreCase):

Input :

String 1 : Java

String 2 : java

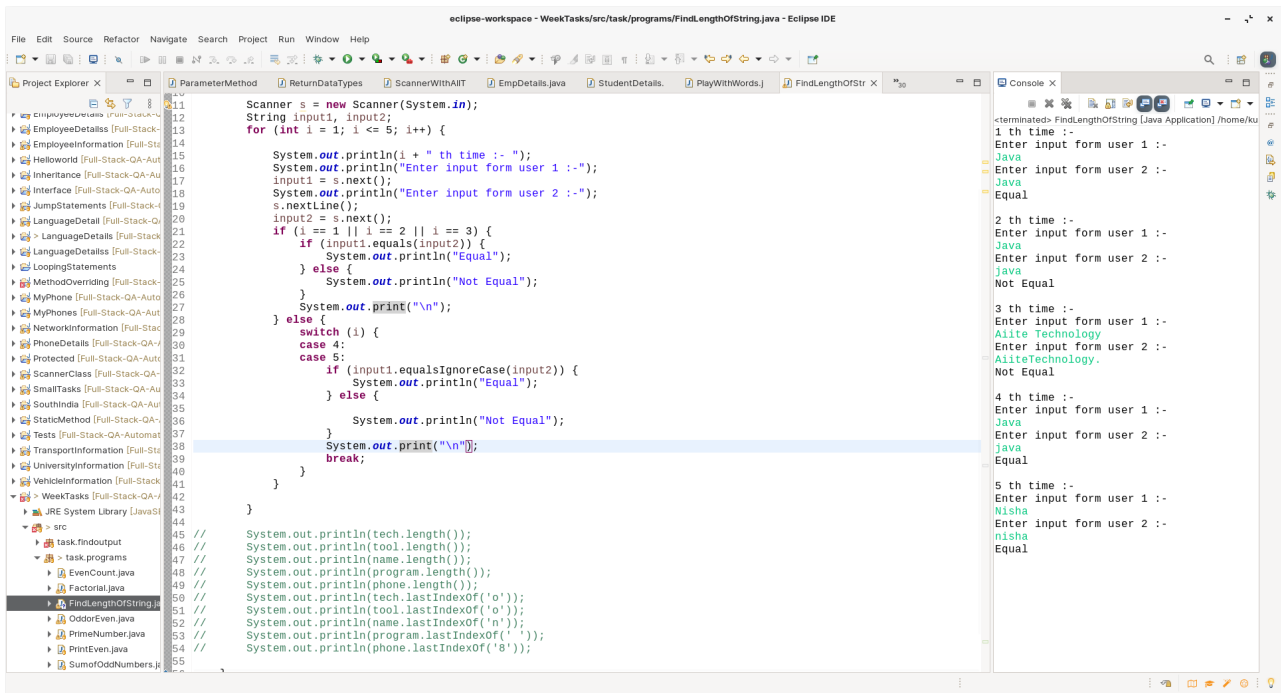
Example(use equalsIgnoreCase) :

Input :

String 1 : Nisha

String 2 : nisha

Output :-



The screenshot shows the Eclipse IDE with a Java project named 'WeekTasks'. The 'FindLengthOfString.java' file is open, displaying a program that uses a Scanner to read two strings and compares them using various methods like equals, equalsIgnoreCase, and lastIndexOf. The console output shows the program's execution for five different test cases, each asking for two strings and printing the result of the comparison.

```
Scanner s = new Scanner(System.in);
String input1, input2;
for (int i = 1; i <= 5; i++) {
    System.out.println(i + " th time :- ");
    System.out.println("Enter input form user 1 :-");
    input1 = s.next();
    System.out.println("Enter input form user 2 :-");
    s.nextLine();
    input2 = s.next();
    if (i == 1 || i == 2 || i == 3) {
        if (input1.equals(input2)) {
            System.out.println("Equal");
        } else {
            System.out.println("Not Equal");
        }
    } else {
        System.out.print("\n");
    }
    switch (i) {
        case 4:
            if (input1.equalsIgnoreCase(input2)) {
                System.out.println("Equal");
            } else {
                System.out.println("Not Equal");
            }
        case 5:
            if (input1.equals(input2)) {
                System.out.println("Equal");
            } else {
                System.out.println("Not Equal");
            }
    }
    System.out.print("\n");
    break;
}
}
```

Console Output:

```
<terminated> FindLengthOfString [Java Application] /home/ku
1 th time :-
Enter input form user 1 :-
Java
Enter input form user 2 :-
Java
Equal

2 th time :-
Enter input form user 1 :-
Java
Enter input form user 2 :-
Java
Not Equal

3 th time :-
Enter input form user 1 :-
Ailite Technology
Enter input form user 2 :-
AiliteTechnology.
Not Equal

4 th time :-
Enter input form user 1 :-
Java
Enter input form user 2 :-
Java
Equal

5 th time :-
Enter input form user 1 :-
Nisha
Enter input form user 2 :-
Nisha
Equal
```

QUESTION 5:

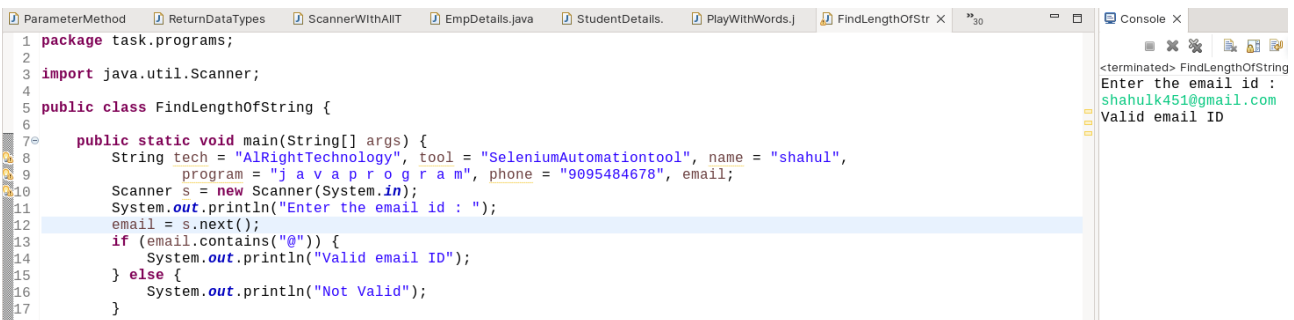
QUESTION 5.1:

Description: Get the email id from the user and verify '@' is present or not?

Example:

Input = shahulk451@gmail.com

Output = valid email id



The screenshot shows the Eclipse IDE with a Java project named 'task'. The 'FindLengthOfString.java' file is open, displaying a program that uses a Scanner to read an email address and checks if it contains an '@' symbol. The console output shows the program's execution for the input 'shahulk451@gmail.com', which is correctly identified as a valid email ID.

```
package task.programs;
import java.util.Scanner;
public class FindLengthOfString {
    public static void main(String[] args) {
        String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
        program = "j a v a p r o g r a m", phone = "9095484678", email;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the email id : ");
        email = s.next();
        if (email.contains("@")) {
            System.out.println("Valid email ID");
        } else {
            System.out.println("Not Valid");
        }
    }
}
```

Console Output:

```
<terminated> FindLengthOfString
Enter the email id :
shahulk451@gmail.com
Valid email ID
```

QUESTION 5.2:

Description: Get the address from the user and verify "pincode" is present or not?

Example:

Input = 5-35-2a,venkatesh nivas,Aruppukottai

Output = invalid address

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        System.out.println("Enter the address :- ");
12        String address = s.nextLine();
13
14        if (address.contains("pincode")) {
15            System.out.println("The address is valid.");
16        } else {
17            System.out.println("The address is invalid.");
18        }
19    }
20 }
```

<terminated> FindLengthOfString [Java Application] /hom
Enter the address :-
5-35-2a,venkatesh nivas,Aruppukottai
The address is invalid.

QUESTION 5.3:

Description: Get the email from the user and verify '@' is present or not and return true or false?

Example:

Input = YuvarajSekar12@gmail.com

Output = True/False

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        System.out.println("Enter the email id : ");
12        email = s.next();
13        boolean e = email.contains("@");
14        if (email.contains("@")) {
15            System.out.println(e);
16        } else {
17            System.out.println(!e);
18        }
19    }
20 }
```

<terminated> FindLengthOfString [Java
Enter the email id :
YuvarajSekar12@gmail.com
false

QUESTION 5.4:

Description: Get the phonenumber from the user and verify any character is present or not .

If character is present return invalid number

Example:

Input = 90954a6o78

Output = False



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        for (int i = 1; i <= 2; i++) {
12            System.out.println("Enter the Phone no : ");
13            String ph = s.next();
14            boolean e = ph.matches("\\d+");
15            if (ph.matches("\\d+")) {
16                System.out.println(e);
17            } else {
18                System.out.println(e);
19            }
20        }
21    }
22 }
```

Console X

```
<terminated> FindLengthOfString
Enter the Phone no :
739395354
true
Enter the Phone no :
90954a6o78
false
```

QUESTION 6:

Description: Get the phonenumber from the user .

If phonenumber exceeds greater than 10 then return invalid number

Example:

Input = 89034256972365

output = invalid

Example 2:

Input = 9095484678

Output = valid



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        for (int i = 1; i <= 2; i++) {
12            System.out.println("Enter the Phone no : ");
13            String ph = s.next();
14            if (ph.length() > 10) {
15                System.out.println("Not Valid");
16            } else {
17                System.out.println("valid");
18            }
19        }
20    }
21 }
```

Console X

```
<terminated> FindLengthOfString [Java
Enter the Phone no :
89034256972365
Not Valid
Enter the Phone no :
9095484678
valid
```

QUESTION 7:

QUESTION 7.1:

Description: Given string as "Welcome to java class" and replace java into sql.

Example:

Input = Welcome to class java
output = Welcome to class sql

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        String course = "Welcome to class java";
12        System.out.println("First course started with : " + course);
13        String course_update = course.replace("java", "sql");
14        System.out.println("Updated course with : " + course_update);
15    }
16 }
```

<terminated> FindLengthOfString [Java Application] /home/kumaresan/p2/pool/
First course started with : Welcome to class java
Updated course with : Welcome to class sql

QUESTION 7.2:

Description: Given string as "AlRight Adayar" and replace Adayar into Omr.

Example:

Input = AlRight Adayar
Output = AlRight Omr

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        String area = "AlRight Adayar";
12        System.out.println("current area : " + area);
13        String area_update = area.replace("Adayar", "omr");
14        System.out.println("Updated area with : " + area_update);
15    }
16 }
```

<terminated> FindLengthOfString [Java Application] /t
current area : AlRight Adayar
Updated area with : AlRight omr

QUESTION 7.3:

Description: Given String as "Welcome to java class" and Replace space into '#'

Example:

input: Welcome to java class
output: Welcome#to#java#class

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9             program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        String word = "Welcome to java class";
12        System.out.println("Word : " + word);
13        String word_update = word.replace(" ", "#");
14        System.out.println("Updated word with : " + word_update);
15    }
16 }
```

<terminated> FindLengthOfString [Java Application] /home/kuma
Word : Welcome to java class
Updated word with : Welcome#to#java#class

QUESTION 7.4:

Description: Get the email from the user and verify "gmail" is present or not.
If present replace that gmail into yahoo

Example:

Input = YuvarajSekar12@gmail.com

Output = YuvarajSekar12@yahoo.com

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9             program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        System.out.println("Enter the gmail Id : ");
12        String gmail = s.next();
13        if (gmail.contains("gmail")) {
14            String yahoo = gmail.replace("gmail", "yahoo");
15            System.out.println("Updated to : " + yahoo);
16        }
17    }
18 }
```

<terminated> FindLengthOfString [Java Application] /home/kun
Enter the gmail Id :
YuvarajSekar12@gmail.com
Updated to : YuvarajSekar12@yahoo.com

QUESTION 7.5:

Description: Get the address from the user and verify "pincode" is present or not.
If present replace the pincode with empty space

Example:

Input = 5-35-2a,venkatesh nivas,Aruppukottai,pincode-626101

Output = 5-35-2a,venkatesh nivas,Aruppukottai

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9             program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        System.out.println("Enter the address :- ");
12        String address = s.nextLine();
13
14        if (address.contains("pincode-626101")) {
15            String space = address.replace("pincode-626101", " ");
16            System.out.println("Updated Address : " + space);
17        } else {
18            System.out.println("The address is invalid.");
19        }
20    }
21 }
```

<terminated> FindLengthOfString [Java Application] /home/kumaresan/p2/pool/plugin
Enter the address :-
5-35-2a,venkatesh nivas,Aruppukottai,pincode-626101
Updated Address : 5-35-2a,venkatesh nivas,Aruppukottai,

QUESTION 8

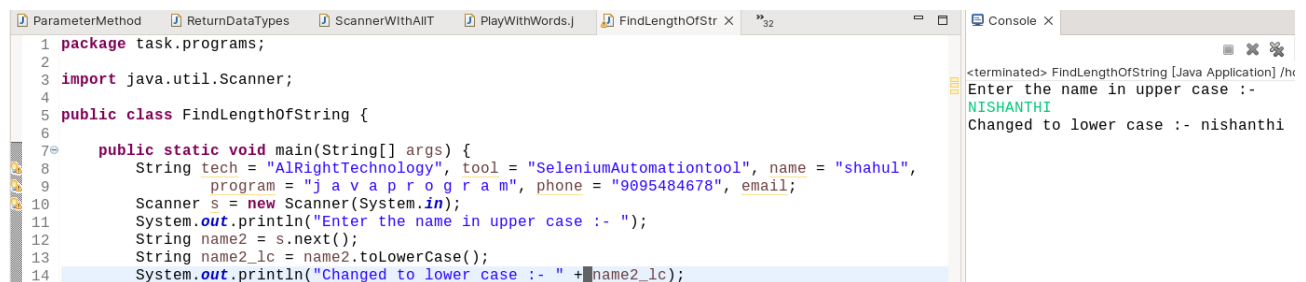
QUESTION 8.1

Description: Get the input from the user and print that word in lowercase

Example:

Input = NISHANTHI

Output = nishanthi



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AIRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        System.out.println("Enter the name in upper case :- ");
12        String name2 = s.next();
13        String name2_lc = name2.toLowerCase();
14        System.out.println("Changed to lower case :- " + name2_lc);
```

Console X

```
<terminated> FindLengthOfString [Java Application] /ho
Enter the name in upper case :-
NISHANTHI
Changed to lower case :- nishanthi
```

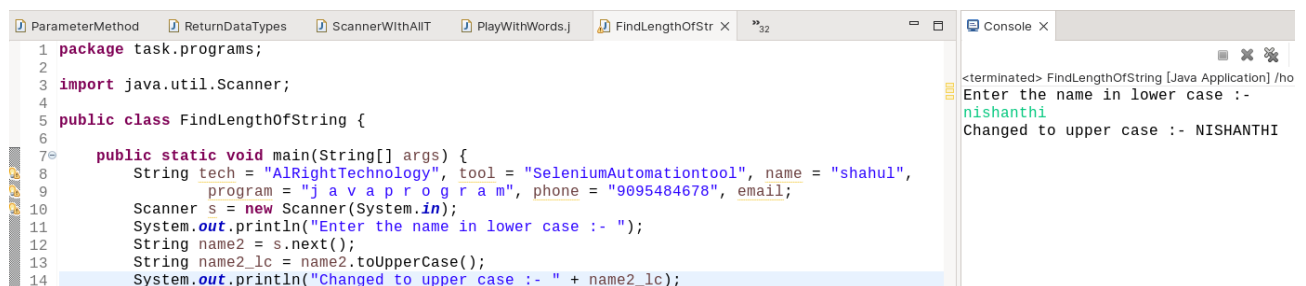
QUESTION 8.2

Description: Get the input from the user and print that word in Uppercase

Example:

Input = nishanthi

Output = NISHANTHI



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AIRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        System.out.println("Enter the name in lower case :- ");
12        String name2 = s.next();
13        String name2_lc = name2.toUpperCase();
14        System.out.println("Changed to upper case :- " + name2_lc);
```

Console X

```
<terminated> FindLengthOfString [Java Application] /ho
Enter the name in lower case :-
nishanthi
Changed to upper case :- NISHANTHI
```

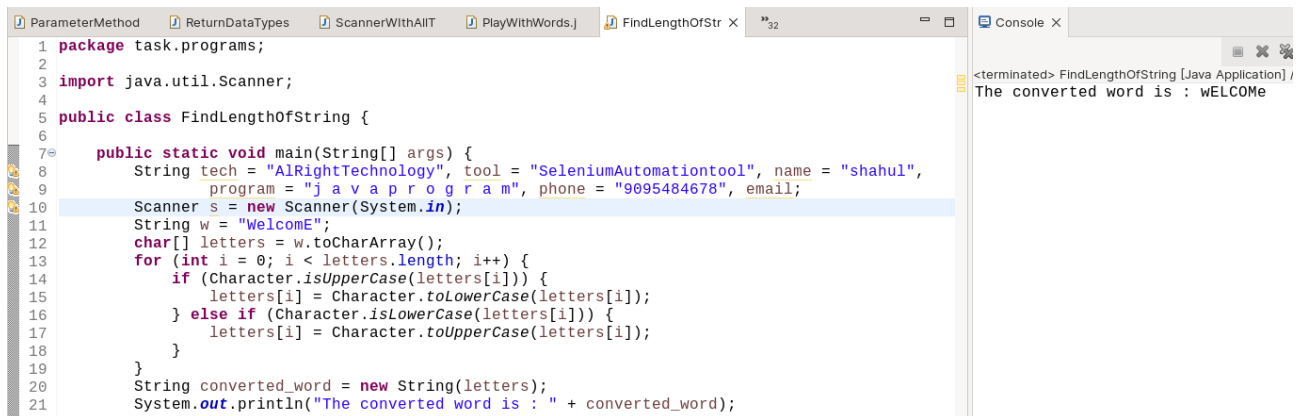
QUESTION 8.3

Description: Convert all small letter and into capital letter

Example:

Input = WelcomE

Output = wELCOMe



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
9         program = "j a v a p r o g r a m", phone = "9095484678", email;
10        Scanner s = new Scanner(System.in);
11        String w = "WelcomE";
12        char[] letters = w.toCharArray();
13        for (int i = 0; i < letters.length; i++) {
14            if (Character.isUpperCase(letters[i])) {
15                letters[i] = Character.toLowerCase(letters[i]);
16            } else if (Character.isLowerCase(letters[i])) {
17                letters[i] = Character.toUpperCase(letters[i]);
18            }
19        }
20        String converted_word = new String(letters);
21        System.out.println("The converted word is : " + converted_word);
22    }
23 }
```

Console X

<terminated> FindLengthOfString [Java Application] /
The converted word is : wELCOMe

This is **charcter array concept**, In string type first we have to **convert string to character array** like {W,e,l,c,o,m,E}, then we have to check whether if each letter in upper or lowercase by using index, to change and vice versa using **Character.isLowerCase(variable)** or **Character.isLowerCase(variable)**.

QUESTION 8.4

Description: Find the number of uppercase count and lowercase count in the given String

Example:

Input = WelComeToJava

Output: UC = 4, LC = 9



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10        program = "j a v a p r o g r a m", phone = "9095484678", email;
11        Scanner s = new Scanner(System.in);
12        String w = "WelComeToJava";
13        char[] letters = w.toCharArray();
14        for (int i = 0; i < letters.length; i++) {
15            if (Character.isUpperCase(letters[i])) {
16                count++;
17            } else if (Character.isLowerCase(letters[i])) {
18                count1++;
19            }
20        }
21        int UpperCaseCount = count;
22        int LowerCaseCount = count1;
23        System.out.println("Upper Case Count : " + UpperCaseCount);
24        System.out.println("Lower Case Count : " + LowerCaseCount);
25    }
26 }
```

Console X

<terminated> FindLengthOfString [Java Application] /
Upper Case Count : 4
Lower Case Count : 9

QUESTION 9

QUESTION 9.1

Description: Given String as "Welcome to java class" and verify whether the given string startsWith welcome

Example:

Input = Welcome to class java

output = True



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10             program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         System.out.println("Enter the String : ");
13         String word = s.nextLine();
14         boolean check = word.startsWith("Welcome");
15         if (check) {
16             System.out.println(check);
17         }
18     }
19 }
```

Console X

```
<terminated> FindLengthOfString [Java]
Enter the String :
Welcome to class java
true
```

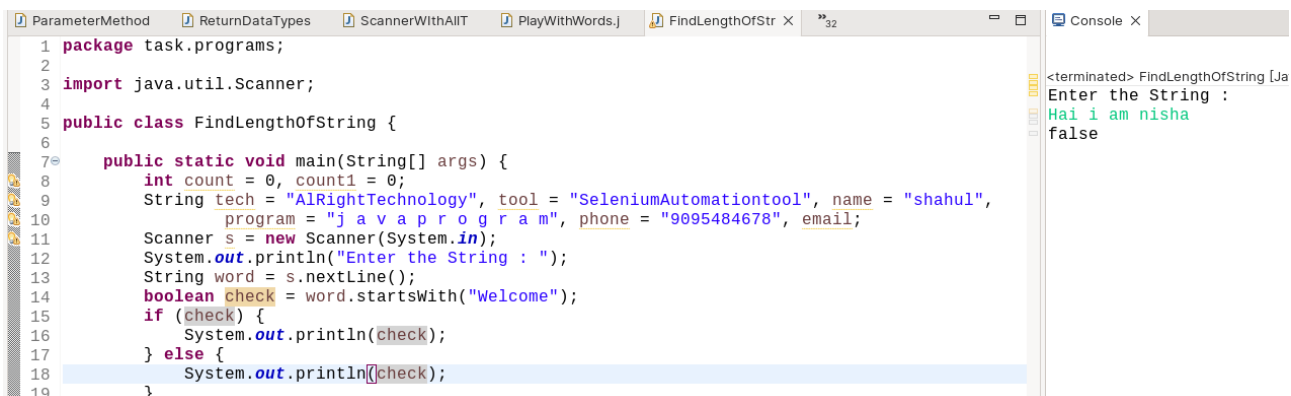
QUESTION 9.2

Description: Given String as "Hai i am nisha" and verify whether the given string startsWith welcome

Example:

Input = Hai i am nisha

output = False



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10             program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         System.out.println("Enter the String : ");
13         String word = s.nextLine();
14         boolean check = word.startsWith("Welcome");
15         if (check) {
16             System.out.println(check);
17         } else {
18             System.out.println(!check);
19         }
20     }
21 }
```

Console X

```
<terminated> FindLengthOfString [Java]
Enter the String :
Hai i am nisha
false
```

QUESTION 9.3

Description: Given String as "Welcome to java class" and verify whether the given string endsWith class

Example:

Input = Welcome to java class

output = True



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         System.out.println("Enter the String : ");
13         String word = s.nextLine();
14         boolean check = word.endsWith("class");
15         if (check) {
16             System.out.println(check);
17         } else {
18             System.out.println(check);
19         }
20     }
21 }
```

Console output:

```
<terminated> FindLengthOfString [Java /
Enter the String :
Welcome to java class
true
```

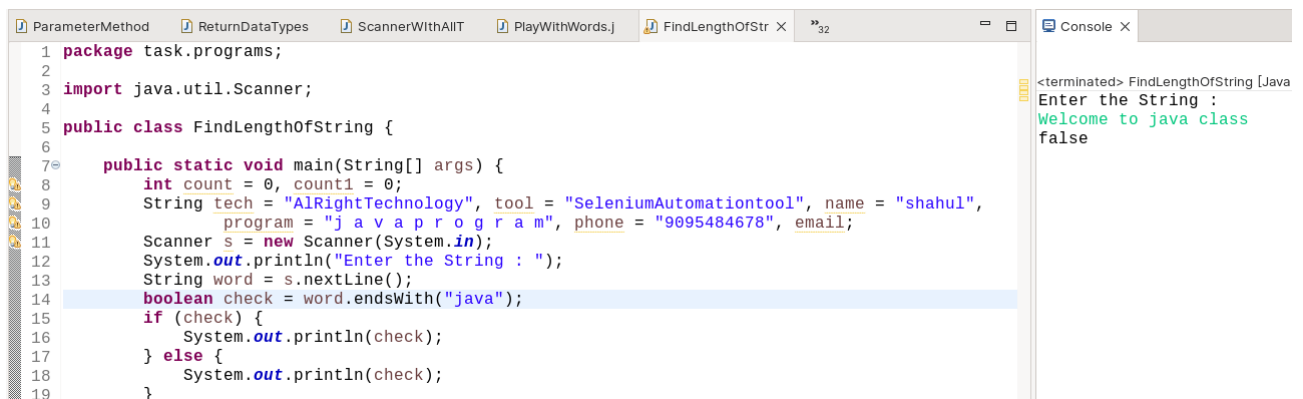
QUESTION 9.4

Description: Given String as "Welcome to java class" and verify whether the given string endsWith java

Example:

Input = Welcome to java class

output = False



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         System.out.println("Enter the String : ");
13         String word = s.nextLine();
14         boolean check = word.endsWith("java");
15         if (check) {
16             System.out.println(check);
17         } else {
18             System.out.println(check);
19         }
20     }
21 }
```

Console output:

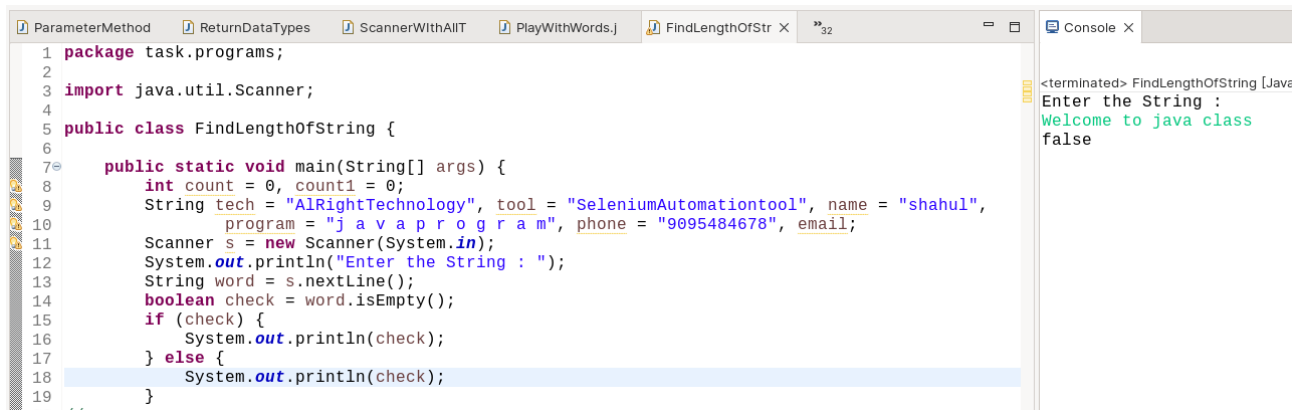
```
<terminated> FindLengthOfString [Java
Enter the String :
Welcome to java class
false
```

QUESTION 9.5

Description: Given String as "Welcome to java class" and verify whether the string is empty or not

Example:

Input = Welcome to java class
output = False



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         System.out.println("Enter the String :");
13         String word = s.nextLine();
14         boolean check = word.isEmpty();
15         if (check) {
16             System.out.println(check);
17         } else {
18             System.out.println(check);
19         }
20     }
21 }
```

Console X

```
<terminated> FindLengthOfString [Java
Enter the String :
Welcome to java class
false
```

QUESTION 9.6

Description: Given String as "" and verify whether the string is empty or not

Example:

Input = ""
Output = False



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         System.out.println("Enter the String :");
13         String word = s.nextLine();
14         boolean check = word.isEmpty();
15         if (check) {
16             System.out.println(check);
17         } else {
18             System.out.println(check);
19         }
20     }
21 }
```

Console X

```
<terminated> FindLengthOfStri
Enter the String :
false
```

QUESTION 10

Description : Get two input from user and Compare

Example

String 1 : Nisha
String 2 : nisha

Example

String 1 : Nia
String 2 : nisha



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         for(int i=1;i<=2;i++)
13         {
14             System.out.println("Test "+i+" set of string :-");
15             System.out.println("Enter the String 1 : ");
16             String name1 = s.next();
17             System.out.println("Enter the String 2 : ");
18             String name2 = s.next();
19             boolean check = name1.equals(name2);
20             if(check)
21             {
22                 System.out.println("Equal");
23             }
24             else
25             {
26                 System.out.println("Not Equal");
27             }
28             System.out.print("\n");
29         }
30     }
31 }
```

Console Output:

```
<terminated> FindLengthOfString [Java Applica
Test 1 set of string :-
Enter the String 1 :
Nisha
Enter the String 2 :
nisha
Not Equal

Test 2 set of string :-
Enter the String 1 :
Nia
Enter the String 2 :
nisha
Not Equal
```

QUESTION 11

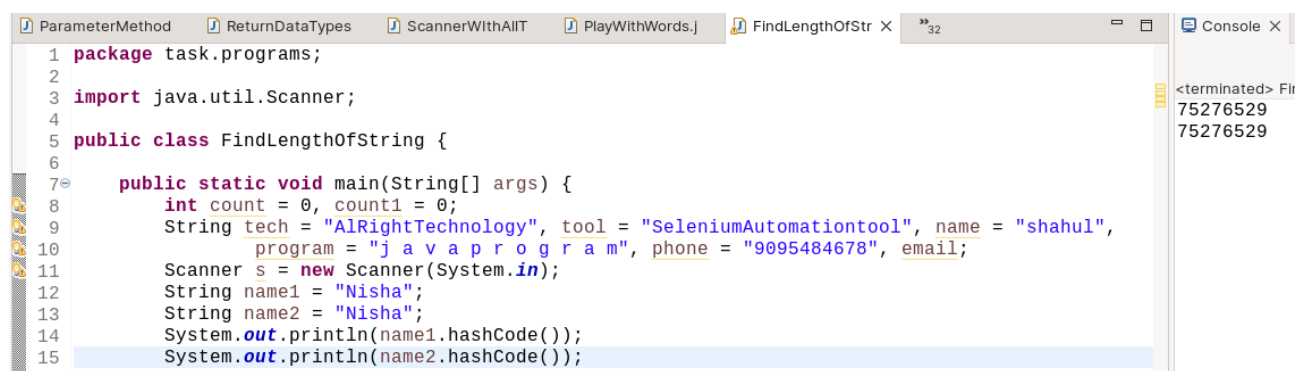
QUESTION 11.1

Description : Generate the two literal string and find the identityHashCode()

Example

String 1 : Nisha

String 2 : Nisha



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String name1 = "Nisha";
13         String name2 = "Nisha";
14         System.out.println(name1.hashCode());
15         System.out.println(name2.hashCode());
16     }
17 }
```

Console X

```
<terminated> Fir
75276529
75276529
```

QUESTION 11.2

Description : Generate the two non literal string and find the identityHashCose()

Example

String 1 : Nisha

String 2 : Nisha



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String name1 = new String("Nisha");
13         String name2 = new String("Nisha");
14         System.out.println(name1.hashCode());
15         System.out.println(name2.hashCode());
16     }
17 }
```

Console X

```
<terminated> FindLengthOf
75276529
75276529
```

QUESTION 11.3

Description : Generate the three non literal string and find the identityHashCode()

Example

String 1 : Nisha

String 2 : Rengan

String 3 : NishaRengan



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String name1 = new String("Nisha");
13         String name2 = new String("Rengan");
14         String name3 = new String("NishaRengan");
15         System.out.println(name1.hashCode());
16         System.out.println(name2.hashCode());
17         System.out.println(name3.hashCode());
18     }
19 }
```

Console Output:

```
<terminated> FindLen
75276529
-1850722183
-84762454
```

QUESTION 11.4

Description : Generate the three literal string and find the identityHashCode()

Example

String 1 : Nisha

String 2 : Rengan

String 3 : NishaRengan



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String name1 = "Nisha";
13         String name2 = "Rengan";
14         String name3 = "NishaRengan";
15         System.out.println(name1.hashCode());
16         System.out.println(name2.hashCode());
17         System.out.println(name3.hashCode());
18     }
19 }
```

Console Output:

```
<terminated> FindLengthOfS
75276529
-1850722183
-84762454
```


QUESTION 12

QUESTION 12.1

Description: Given String as "Welcome to java class" and split it by space.

Example:

Input :Welcome to java class

Output:

Welcome

to

java

class



The screenshot shows an IDE with a Java file named 'FindLengthOfString.java'. The code defines a package 'task.programs', imports 'java.util.Scanner', and creates a class 'FindLengthOfString'. The 'main' method initializes variables for a scanner, a word, and an array of strings. It then splits the word 'Welcome to java class' by spaces and prints each part on a new line. The console on the right shows the output: 'Welcome', 'to', 'java', and 'class'.

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String word = "Welcome to java class";
13         String[] sw = word.split(" ");
14         for (String ns : sw) {
15             System.out.println(ns);
16         }
17     }
18 }
```

Console Output:

```
<terminated> FindLength
Welcome
to
java
class
```

QUESTION 12.2

Description: Given String as "Welcome to java class" and split it by 1

Example:

Input :Welcome to java class

Output:

We

come to java c

ass



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String word = "Welcome to java class";
13         String[] sw = word.split(" ");
14         for (String ns : sw) {
15             System.out.println(ns);
16         }
17     }
18 }
```

Console X

```
<terminated> FindLengthOfString [Java
We
come to java c
ass
```

QUESTION 13

QUESTION 13.1

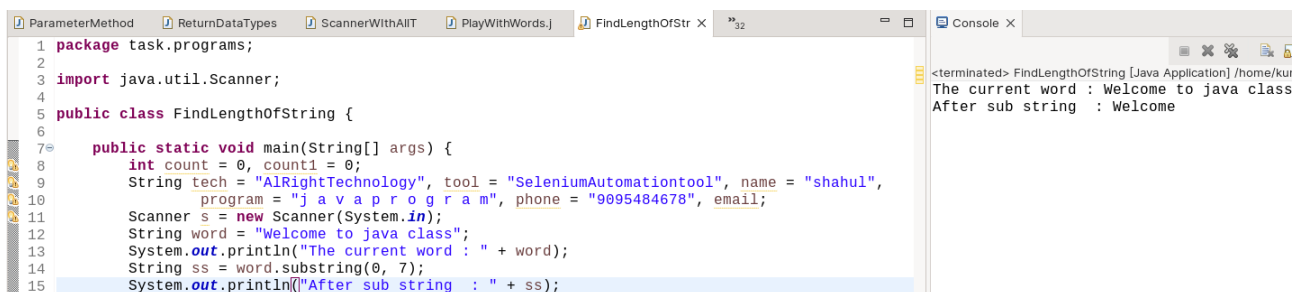
Description: Given String as "Welcome to java class" and generate a substring.

Example:

Input :Welcome to java class

Output:

Welcome



```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10            program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String word = "Welcome to java class";
13         System.out.println("The current word : " + word);
14         String ss = word.substring(0, 7);
15         System.out.println("After sub string : " + ss);
16     }
17 }
```

Console X

```
<terminated> FindLengthOfString [Java Application] /home/kui
The current word : Welcome to java class
After sub string : Welcome
```

QUESTION 14

Description: Given String as "Welcome" and the number of consonant count and vowels count

Example:

Input = Welcome

output:

vowels = 3

consonant = 4

```
ParameterMethod ReturnDataTypes ScannerWithAIT PlayWithWords.j FindLengthOfString X "32 Console X
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10         program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String str = "Welcome";
13         int vowelCount = 0;
14         int consonantCount = 0;
15
16         for (int i = 0; i < str.length(); i++) {
17             char ch = str.charAt(i);
18             if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||
19                 ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {
20                 vowelCount++;
21             } else if (ch >= 'a' && ch <= 'z' || ch >= 'A' && ch <= 'Z') {
22                 consonantCount++;
23             }
24         }
25     }
26 }
```

<terminated> FindLength
vowels = 3
consonant = 4

QUESTION 15:

Description: Find the count of caps,small,number and special character in given string

Example:

Input : Welcome To Java class @123

Output

caps count :3

small count :15

number count:3

Special char:5

```
ParameterMethod ReturnDataTypes ScannerWithAIT PlayWithWords.j FindLengthOfString X "32 Console X
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10         program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String str = "Welcome To Java class @123";
13         int capsCount = 0;
14         int smallCount = 0;
15         int numberCount = 0;
16         int specialCount = 0;
17
18         for (int i = 0; i < str.length(); i++) {
19             char ch = str.charAt(i);
20             if (ch >= 'A' && ch <= 'Z') {
21                 capsCount++;
22             } else if (ch >= 'a' && ch <= 'z') {
23                 smallCount++;
24             } else if (ch >= '0' && ch <= '9') {
25                 numberCount++;
26             } else {
27                 specialCount++;
28             }
29         }
30
31         System.out.println("caps count : " + capsCount);
32         System.out.println("small count : " + smallCount);
33         System.out.println("number count: " + numberCount);
34         System.out.println("Special char: " + specialCount);
35     }
36 }
```

<terminated> FindLengthOfString [k
caps count : 3
small count : 15
number count: 3
Special char: 5

QUESTION 16

Description: Replace all vowels char into '@'

Example:

Input = Welcome

Output = W@lc@m@



The screenshot shows an IDE with several tabs: ParameterMethod, ReturnDataTypes, ScannerWithAIIT, PlayWithWords.j, FindLengthOfStr, and a console window. The code in the editor is as follows:

```
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6
7     public static void main(String[] args) {
8         int count = 0, count1 = 0;
9         String tech = "AlRightTechnology", tool = "SeleniumAutomationtool", name = "shahul",
10         program = "j a v a p r o g r a m", phone = "9095484678", email;
11         Scanner s = new Scanner(System.in);
12         String word = "Welcome";
13         String at_replaced = word.replaceAll("[aeiouAEIOU]", "@");
14         System.out.println(at_replaced);
15     }
16 }
```

The console window on the right shows the output: `<terminated> Find W@lc@m@`

Question 3:

Description: Find the particular character in the given string

String 1: AlRightTechnology
print the character h

String 2: SeleniumAutomationtool
print the character o

String 3: shahul
print the character u

String 4: j a v a p r o g r a m
print the character p

String 5: 9095484678
print the character 7

```
ParameterMethod | ReturnDataTypes | ScannerWithAIIT | PlayWithWords.J | FindLengthOfString X | 32 | Console X
1 package task.programs;
2
3 import java.util.Scanner;
4
5 public class FindLengthOfString {
6     public static void alRight()
7     {
8         Scanner s = new Scanner(System.in);
9         System.out.println("Enter String : ");
10        String tech = s.next();
11        int index = tech.indexOf('h');
12        System.out.println(tech.charAt(index));
13    }
14    public static void SeleniumAutomationtool()
15    {
16        Scanner s = new Scanner(System.in);
17        System.out.println("Enter String : ");
18        String tool = s.next();
19        int index1 = tool.indexOf('o');
20        System.out.println(tool.charAt(index1));
21    }
22    public static void name()
23    {
24        Scanner s = new Scanner(System.in);
25        System.out.println("Enter String : ");
26        String name = s.next();
27        int index2 = name.indexOf('u');
28        System.out.println(name.charAt(index2));
29    }
30    public static void language()
31    {
32        Scanner s = new Scanner(System.in);
33        System.out.println("Enter String : ");
34        String language = s.nextLine();
35        int index3 = language.indexOf('p');
36        System.out.println(language.charAt(index3));
37    }
38    public static void phone()
39    {
40        Scanner s = new Scanner(System.in);
41        System.out.println("Enter String : ");
42        String ph = s.next();
43        int index4 = ph.indexOf('7');
44        System.out.println(ph.charAt(index4));
45    }
46
47    public static void main(String[] args) {
48        alRight();
49        SeleniumAutomationtool();
50        name();
51        language();
52        phone();
53    }
54 }
```

<terminated> FindLengthOfString [.
Enter String :
AlRightTechnology
h
Enter String :
SeleniumAutomationtool
o
Enter String :
shahul
u
Enter String :
j a v a p r o g r a m
p
Enter String :
9095484678
7