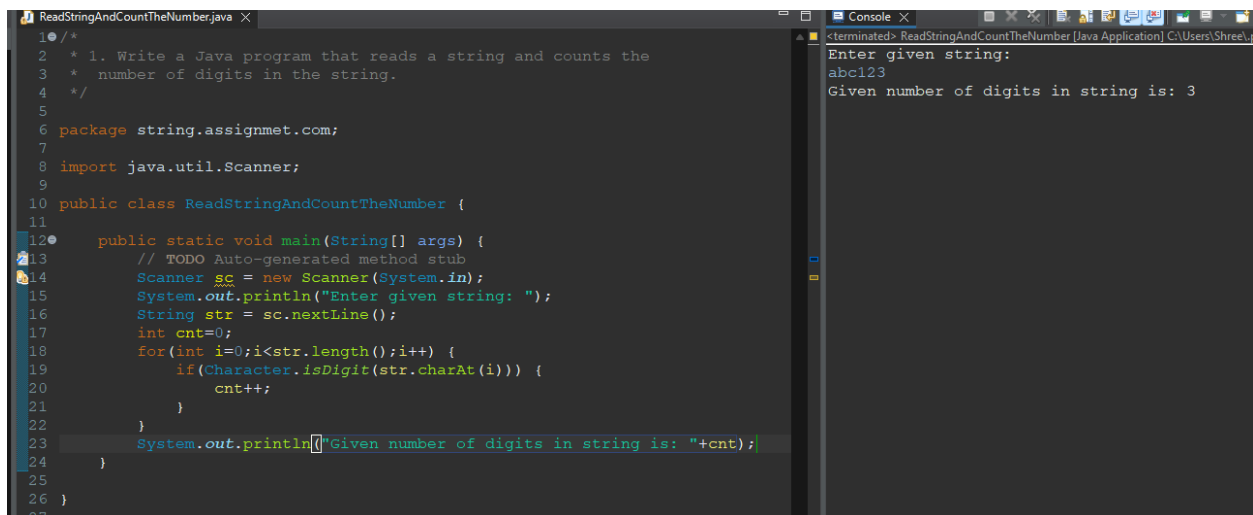


Assignment No:-31

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Batch: - Delta - DCA (Java) 2024 Date:-19/6/2024

1. Write a Java program that reads a string and counts the number of digits in the string.



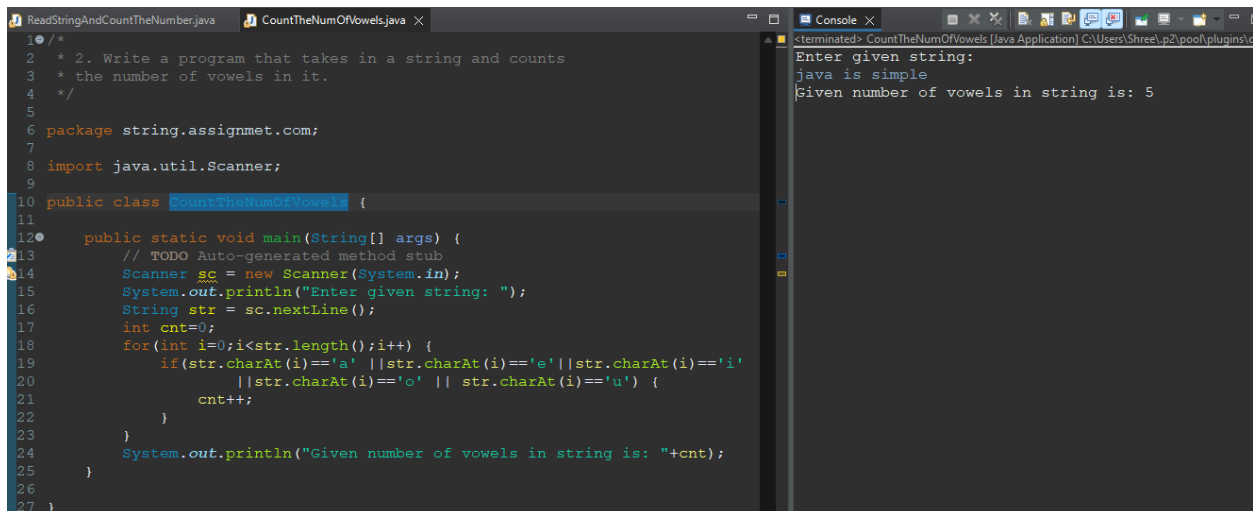
The screenshot shows an IDE with two panes. The left pane displays the source code for a Java program named `ReadStringAndCountTheNumber.java`. The code includes a package declaration, an import for `java.util.Scanner`, and a `main` method that reads a string from the user and counts the number of digits using a loop and `Character.isDigit`. The right pane shows the console output, where the user has entered the string "abc123" and the program has output "Given number of digits in string is: 3".

```
1 /*
2  * 1. Write a Java program that reads a string and counts the
3  * number of digits in the string.
4  */
5
6 package string.assignmet.com;
7
8 import java.util.Scanner;
9
10 public class ReadStringAndCountTheNumber {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         Scanner sc = new Scanner(System.in);
15         System.out.println("Enter given string: ");
16         String str = sc.nextLine();
17         int cnt=0;
18         for(int i=0;i<str.length();i++) {
19             if(Character.isDigit(str.charAt(i))) {
20                 cnt++;
21             }
22         }
23         System.out.println("Given number of digits in string is: "+cnt);
24     }
25 }
26 }
27 }
```

Console Output:

```
<terminated> ReadStringAndCountTheNumber [Java Application] C:\Users\Shree\p
Enter given string:
abc123
Given number of digits in string is: 3
```

2. Write a program that takes in a string and counts the number of vowels in it.



The screenshot shows an IDE with two panes. The left pane displays the source code for a Java program named `CountTheNumOfVowels.java`. The code includes a package declaration, an import for `java.util.Scanner`, and a `main` method that reads a string from the user and counts the number of vowels (a, e, i, o, u) using a loop and conditional checks. The right pane shows the console output, where the user has entered the string "java is simple" and the program has output "Given number of vowels in string is: 5".

```
1 /*
2  * 2. Write a program that takes in a string and counts
3  * the number of vowels in it.
4  */
5
6 package string.assignmet.com;
7
8 import java.util.Scanner;
9
10 public class CountTheNumOfVowels {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         Scanner sc = new Scanner(System.in);
15         System.out.println("Enter given string: ");
16         String str = sc.nextLine();
17         int cnt=0;
18         for(int i=0;i<str.length();i++) {
19             if(str.charAt(i)=='a' || str.charAt(i)=='e' || str.charAt(i)=='i'
20                || str.charAt(i)=='o' || str.charAt(i)=='u') {
21                 cnt++;
22             }
23         }
24         System.out.println("Given number of vowels in string is: "+cnt);
25     }
26 }
27 }
```

Console Output:

```
<terminated> CountTheNumOfVowels [Java Application] C:\Users\Shree\p2\poo\plugins\o
Enter given string:
java is simple
Given number of vowels in string is: 5
```

3. Wap enter a string and the character present at even and odd position individually.

```
10 /*
11  * 3. Wap enter a string and the character present
12  *   at even and odd position individually.
13  */
14 package string.assignmet.com;
15
16 import java.util.Scanner;
17
18 public class FindTheCharacterPresentAtEvenAndOdd {
19
20     public static void main(String[] args) {
21         // TODO Auto-generated method stub
22         Scanner sc = new Scanner(System.in);
23         System.out.println("Enter given string: ");
24         String str = sc.nextLine();
25         char ch[]=str.toCharArray();
26         for(int i=0;i<ch.length;i++) {
27             if((i+1)%2==0 && ch[i]!=' ') {
28                 System.out.println("Even: "+str.charAt(i));
29             }else if((i+1)%2!=0 && ch[i]!=' ') {
30                 System.out.println("Odd: "+str.charAt(i));
31             }
32         }
33     }
34 }
```

Console

```
<terminated> FindTheCharacterPresentAtEvenAndOdd [Java Application]
Enter given string:
java is simple
Odd: j
Even: a
Odd: v
Even: a
Even: i
Odd: s
Odd: s
Even: i
Odd: m
Even: p
Odd: l
Even: e
```

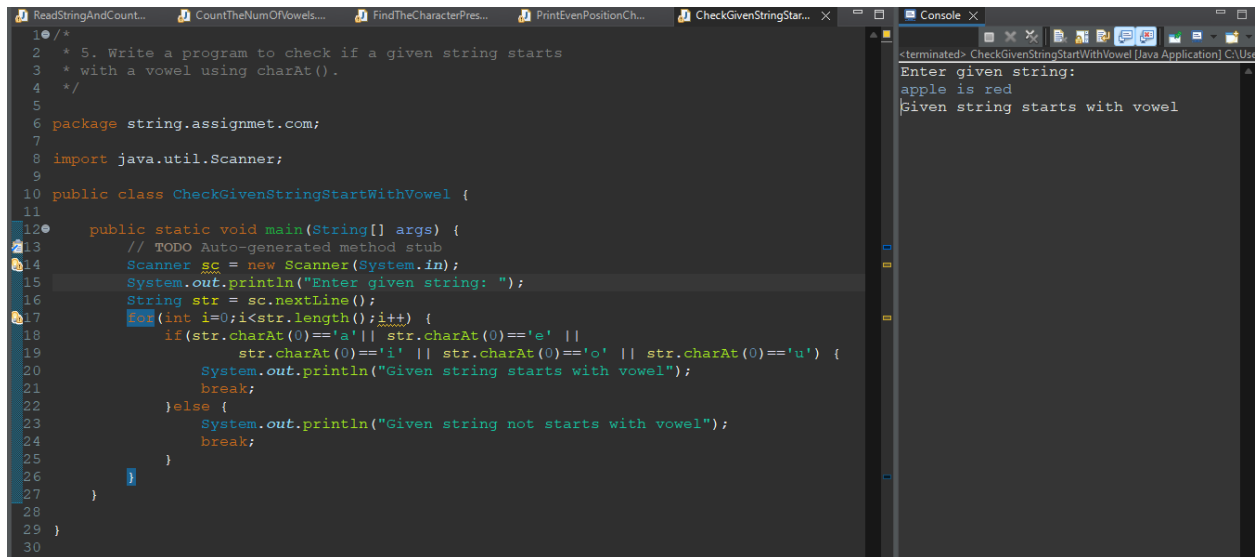
4. Wap enter a string and print the character present at even position.

```
10 /*
11  * 4. Wap enter a string and print the character present at even position.
12  */
13 package string.assignmet.com;
14
15 import java.util.Scanner;
16
17 public class PrintEvenPositionChar {
18
19     public static void main(String[] args) {
20         // TODO Auto-generated method stub
21         Scanner sc = new Scanner(System.in);
22         System.out.println("Enter given string: ");
23         String str = sc.nextLine();
24         char ch[]=str.toCharArray();
25         System.out.print("Given even position character is: ");
26         for(int i=0;i<ch.length;i++) {
27             if((i+1)%2==0 && ch[i]!=' ') {
28                 System.out.print(ch[i]+" ");
29             }
30         }
31     }
32 }
```

Console

```
<terminated> PrintEvenPositionChar [Java Application] C:\Users\Shree\p2\pool\plugins\org.eclipse
Enter given string:
java is simple
Given even position character is: a a i p e
```

5. Write a program to check if a given string starts with a vowel using charAt().

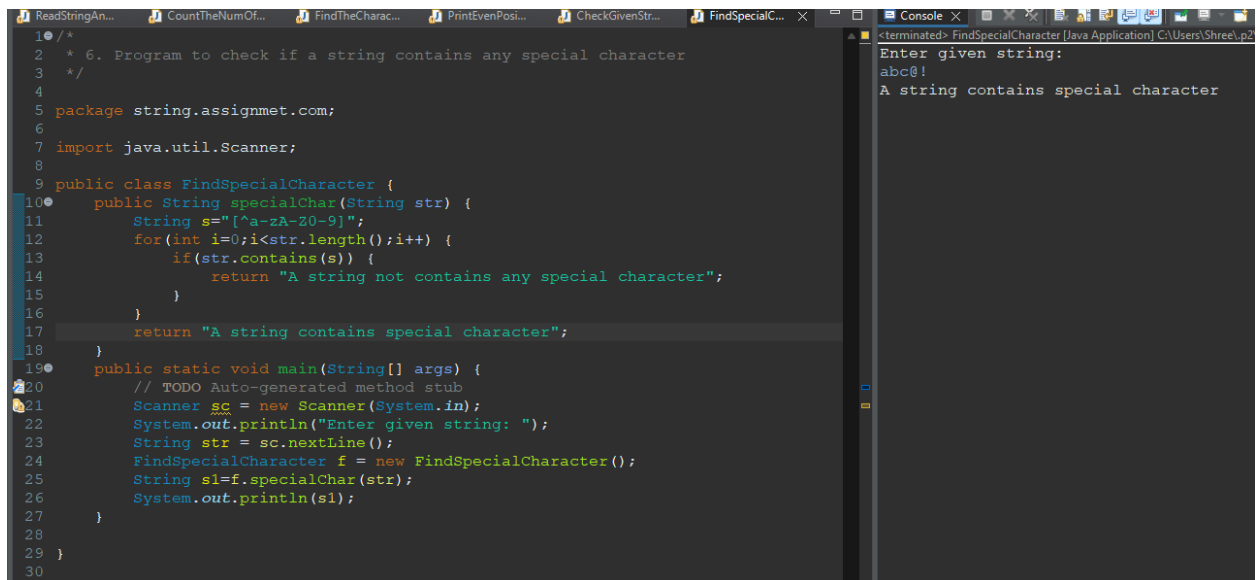


The screenshot shows an IDE with a Java file named 'CheckGivenStringStartWithVowel.java'. The code is as follows:

```
1 /*
2  * 5. Write a program to check if a given string starts
3  * with a vowel using charAt().
4  */
5
6 package string.assignmet.com;
7
8 import java.util.Scanner;
9
10 public class CheckGivenStringStartWithVowel {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         Scanner sc = new Scanner(System.in);
15         System.out.println("Enter given string: ");
16         String str = sc.nextLine();
17         for(int i=0;i<str.length();i++) {
18             if(str.charAt(0)=='a' || str.charAt(0)=='e' ||
19                str.charAt(0)=='i' || str.charAt(0)=='o' || str.charAt(0)=='u') {
20                 System.out.println("Given string starts with vowel");
21                 break;
22             } else {
23                 System.out.println("Given string not starts with vowel");
24                 break;
25             }
26         }
27     }
28 }
29
30
```

The console output shows the program execution: "Enter given string: apple is red" followed by "Given string starts with vowel".

6. Program to check if a string contains any special character



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

```
1 /*
2  * 6. Program to check if a string contains any special character
3  */
4
5 package string.assignmet.com;
6
7 import java.util.Scanner;
8
9 public class FindSpecialCharacter {
10     public String specialChar(String str) {
11         String s="[^a-zA-Z0-9_]";
12         for(int i=0;i<str.length();i++) {
13             if(str.contains(s)) {
14                 return "A string not contains any special character";
15             }
16         }
17         return "A string contains special character";
18     }
19     public static void main(String[] args) {
20         // TODO Auto-generated method stub
21         Scanner sc = new Scanner(System.in);
22         System.out.println("Enter given string: ");
23         String str = sc.nextLine();
24         FindSpecialCharacter f = new FindSpecialCharacter();
25         String s1=f.specialChar(str);
26         System.out.println(s1);
27     }
28 }
29
30
```

The console output shows the program execution: "Enter given string: abc@!" followed by "A string contains special character".

7. WAP to replace all the odd index character with *(Star) in String.

```
CountTheNum... FindTheChar... CheckGivenS... FindSpecialC... ReplaceOddIn... X Console X
10 /*
11  * 7. WAP to replace all the odd index character with *(Star) in String.
12  */
13 package string.assignmet.com;
14
15 import java.util.Scanner;
16
17 public class ReplaceOddIndexWithStar {
18
19     public static void main(String[] args) {
20         // TODO Auto-generated method stub
21         Scanner sc = new Scanner(System.in);
22         System.out.println("Enter given string: ");
23         String str = sc.nextLine();
24         char ch[]=str.toCharArray();
25         System.out.print("Replace all the odd index with *: ");
26         for(int i=0;i<ch.length;i++) {
27             if(i%2!=0 && ch[i]!=' ') {
28                 System.out.print(ch[i]+"*");
29             }
30         }
31     }
32 }
```

<terminated> ReplaceOddIndexWithStar (Java Application) C:\Users\Shree\p2\poo\plugins\org

Enter given string:
java is simple
Replace all the odd index with *: j*v*s*s*m*l*

8. WAP to replace all the even index character with #(hash) in String.

```
CheckGivenS... FindSpecialC... ReplaceOddIn... ReplaceAllEv... X RotatesTheC... Console X
10 /*
11  * 8. WAP to replace all the even index character with #(hash) in String.
12  */
13 package string.assignmet.com;
14
15 import java.util.Scanner;
16
17 public class ReplaceAllEvenIndexCharWithHash {
18
19     public static void main(String[] args) {
20         // TODO Auto-generated method stub
21         Scanner sc = new Scanner(System.in);
22         System.out.println("Enter given string: ");
23         String str = sc.nextLine();
24         char ch[]=str.toCharArray();
25         System.out.print("Replace all the even index with # : ");
26         for(int i=0;i<ch.length;i++) {
27             if(i%2==0 && ch[i]!=' ') {
28                 System.out.print("#"+ch[i]);
29             }
30         }
31     }
32 }
```

<terminated> ReplaceAllEvenIndexCharWithHash (Java Application) C:\Users\Shree\p2\poo\plugins\org

Enter given string:
java is simple
Replace all the even index with # : #a#a#i#i#p#e

9. Wap enter a string and rotate the character clockwise direction.

```
1  /*
2   * 9. Wap enter a string and rotate the character
3   * clockwise direction.
4   */
5
6   package string.assignmet.com;
7
8   import java.util.Scanner;
9
10  public class RotatesTheCharInClockWise {
11
12      public static void main(String[] args) {
13          // TODO Auto-generated method stub
14          Scanner sc = new Scanner(System.in);
15          System.out.println("Enter given string: ");
16          String str = sc.nextLine();
17          char ch[]=str.toCharArray();
18          char ch1=ch[ch.length-1];
19          for(int i=ch.length-1;i>0;i--) {
20              ch[i]=ch[i-1];
21          }
22          ch[0]=ch1;
23          System.out.println("Clock wise direction: ");
24          for(int i=0;i<ch.length;i++) {
25              System.out.print(ch[i]+"");
26          }
27      }
28  }
29  }
30  }
```

```
<terminated> RotatesTheCharInClockWise [Java Application] C:\Users\Shree\p2\pool\plu
Enter given string:
java is simple
Clock wise direction:
ejava is simpl
```

10. Wap enter a string and rotate the character Anti-clockwise direction.

```
1  /*
2   * 10. Wap enter a string and rotate the
3   * character Anti-clockwise direction.
4   */
5
6   package string.assignmet.com;
7
8   import java.util.Scanner;
9
10  public class RotateCharAntiClockWise {
11
12      public static void main(String[] args) {
13          // TODO Auto-generated method stub
14          Scanner sc = new Scanner(System.in);
15          System.out.println("Enter given string: ");
16          String str = sc.nextLine();
17          char ch[]=str.toCharArray();
18          char c=ch[0];
19          for(int i=0;i<ch.length-1;i++) {
20              ch[i]=ch[i+1];
21          }
22          ch[ch.length-1]=c;
23          System.out.print("Anti-Clock wise direction: ");
24          for(int i=0;i<ch.length;i++) {
25              System.out.print(ch[i]+"");
26          }
27      }
28  }
29  }
30  }
```

```
<terminated> RotateCharAntiClockWise [Java Application] C:\Users\Shree\p2\pool\plugins\lorc
Enter given string:
java is simple
Anti-Clock wise direction: ava is simplej
```

11. Input : Geeks\$For\$Geeks Output : String is not accepted.

Input : Geeks For Geeks

Output : String is accepted

```
1 10 /*
2  * 11.
3  Input : Geeks$For$Geeks
4  Output : String is not accepted.
5  Input : Geeks For Geeks
6  Output : String is accepted
7
8  */
9  package string.assignmet.com;
10
11  import java.util.Scanner;
12
13  public class CheckStringAcceptedOrNot {
14      public void checkString(String str) {
15          String s="$";
16          char ch[]=str.toCharArray();
17          char y='$';
18          for(int i=0;i<str.length();i++) {
19              if(str.contains(s)) {
20                  System.out.println("String is not accepted");
21                  break;
22              }else {
23                  System.out.println("String is accepted");
24                  break;
25              }
26          }
27      }
28
29      public static void main(String[] args) {
30          // TODO Auto-generated method stub
31          Scanner sc = new Scanner(System.in);
32          System.out.println("Enter given string: ");
33          String str = sc.nextLine();
34          CheckStringAcceptedOrNot c = new CheckStringAcceptedOrNot();
35          c.checkString(str);
36      }
37  }
```

Console

```
<terminated> CheckStringAcceptedOrNot [Java Application] C:\Users\Shree\p2\
Enter given string:
Geeks For Geeks
String is accepted
```

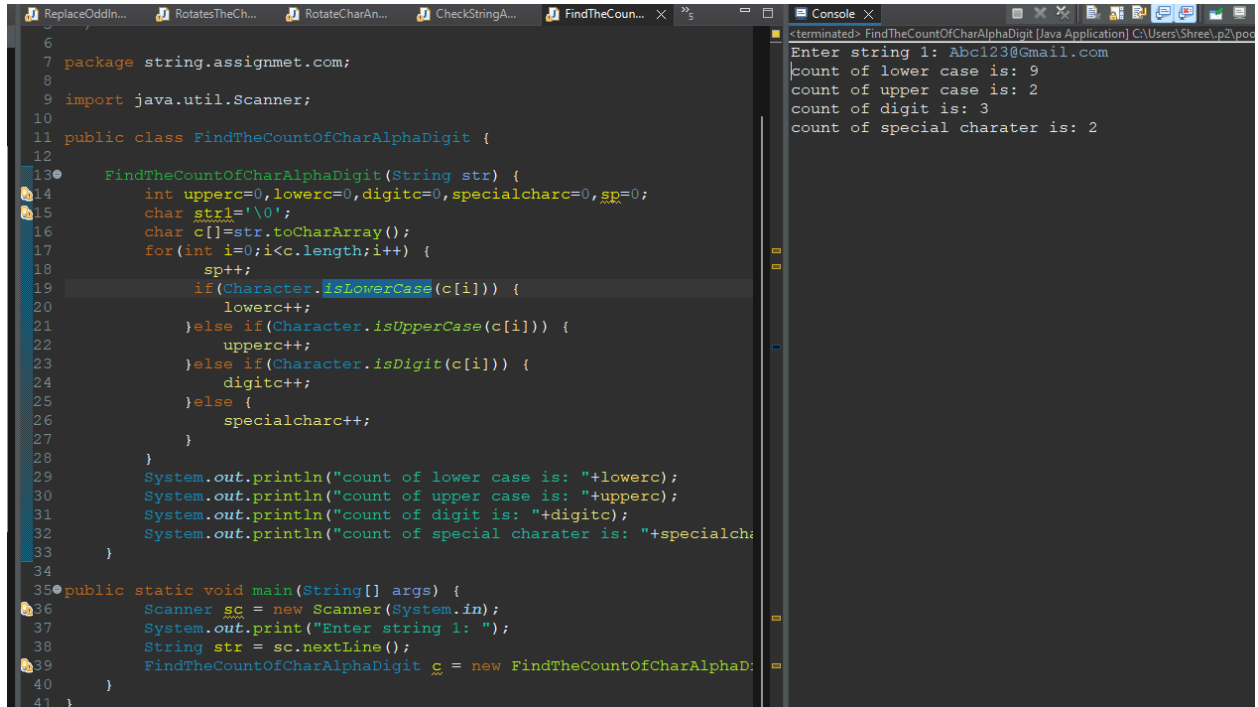
```
1 10 /*
2  * 11.
3  Input : Geeks$For$Geeks
4  Output : String is not accepted.
5  Input : Geeks For Geeks
6  Output : String is accepted
7
8  */
9  package string.assignmet.com;
10
11  import java.util.Scanner;
12
13  public class CheckStringAcceptedOrNot {
14      public void checkString(String str) {
15          String s="$";
16          char ch[]=str.toCharArray();
17          char y='$';
18          for(int i=0;i<str.length();i++) {
19              if(str.contains(s)) {
20                  System.out.println("String is not accepted");
21                  break;
22              }else {
23                  System.out.println("String is accepted");
24                  break;
25              }
26          }
27      }
28
29      public static void main(String[] args) {
30          // TODO Auto-generated method stub
31          Scanner sc = new Scanner(System.in);
32          System.out.println("Enter given string: ");
33          String str = sc.nextLine();
34          CheckStringAcceptedOrNot c = new CheckStringAcceptedOrNot();
35          c.checkString(str);
36      }
37  }
```

Console

```
<terminated> CheckStringAcceptedOrNot [Java Application] C:\Users\Shree\p2\pool
Enter given string:
Geeks$For$Geeks
String is not accepted
```

Q12.Wap enter a string and find the count of uppercase, lowercase, digits and special characters in a string.

The program should output the total count of digits found in the input string.



```
6
7 package string.assignmet.com;
8
9 import java.util.Scanner;
10
11 public class FindTheCountOfCharAlphaDigit {
12
13     FindTheCountOfCharAlphaDigit(String str) {
14         int upperc=0,lowerc=0,digitc=0,specialcharc=0,sp=0;
15         char str1='\0';
16         char c[]=str.toCharArray();
17         for(int i=0;i<c.length;i++) {
18             sp++;
19             if(Character.isLowerCase(c[i])) {
20                 lowerc++;
21             }else if(Character.isUpperCase(c[i])) {
22                 upperc++;
23             }else if(Character.isDigit(c[i])) {
24                 digitc++;
25             }else {
26                 specialcharc++;
27             }
28         }
29         System.out.println("count of lower case is: "+lowerc);
30         System.out.println("count of upper case is: "+upperc);
31         System.out.println("count of digit is: "+digitc);
32         System.out.println("count of special charater is: "+specialcharc);
33     }
34
35     public static void main(String[] args) {
36         Scanner sc = new Scanner(System.in);
37         System.out.print("Enter string 1: ");
38         String str = sc.nextLine();
39         FindTheCountOfCharAlphaDigit c = new FindTheCountOfCharAlphaDigit(str);
40     }
41 }
```

Console Output:

```
<terminated> FindTheCountOfCharAlphaDigit (Java Application) C:\Users\Shree\p2\poo
Enter string 1: Abc123@Gmail.com
count of lower case is: 9
count of upper case is: 2
count of digit is: 3
count of special charater is: 2
```

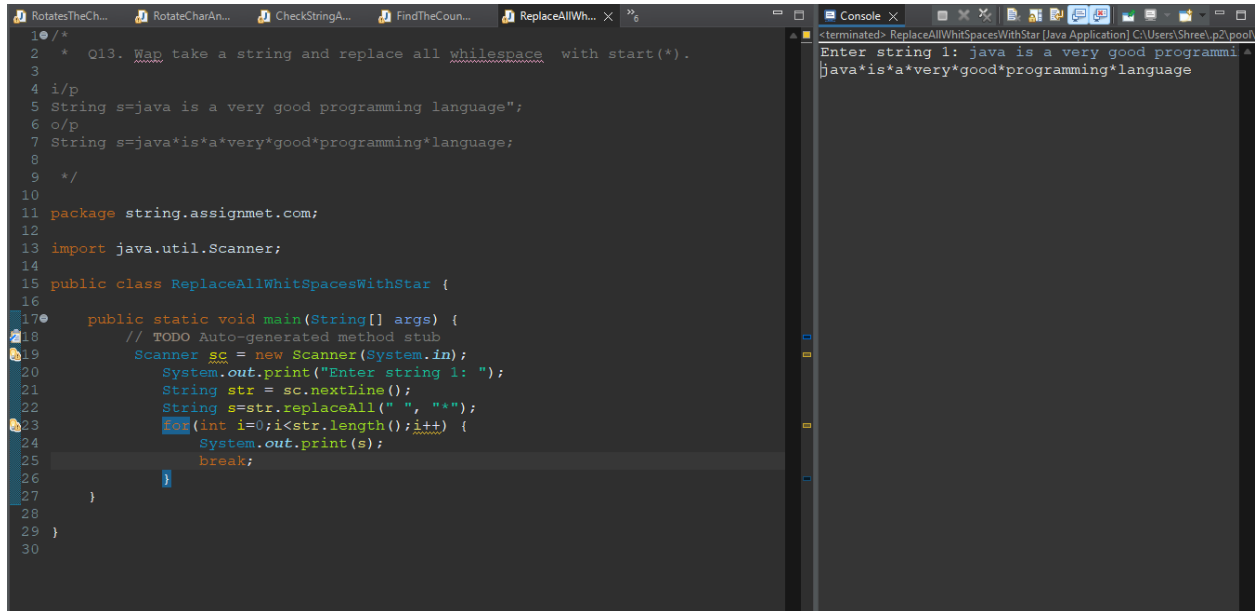
Q13. Wap take a string and replace all whitespace with start(*)).

i/p

String s=java is a very good programming language";

o/p

String s=java*is*a*very*good*programming*language;



The screenshot shows a Java IDE with a code editor on the left and a console on the right. The code in the editor is as follows:

```
1  /*
2   * Q13. Wap take a string and replace all whitespace with start(*).
3   */
4  i/p
5  String s=java is a very good programming language";
6  o/p
7  String s=java*is*a*very*good*programming*language;
8
9  */
10
11 package string.assignmet.com;
12
13 import java.util.Scanner;
14
15 public class ReplaceAllWhitSpacesWithStar {
16
17     public static void main(String[] args) {
18         // TODO Auto-generated method stub
19         Scanner sc = new Scanner(System.in);
20         System.out.print("Enter string 1: ");
21         String str = sc.nextLine();
22         String s=str.replaceAll(" ", "*");
23         for(int i=0;i<str.length();i++) {
24             System.out.print(s);
25             break;
26         }
27     }
28
29 }
30
```

The console on the right shows the execution output:

```
<terminated> ReplaceAllWhitSpacesWithStar (Java Application) C:\Users\Shree\p2\pool\
Enter string 1: java is a very good programmi
java*is*a*very*good*programming*language
```

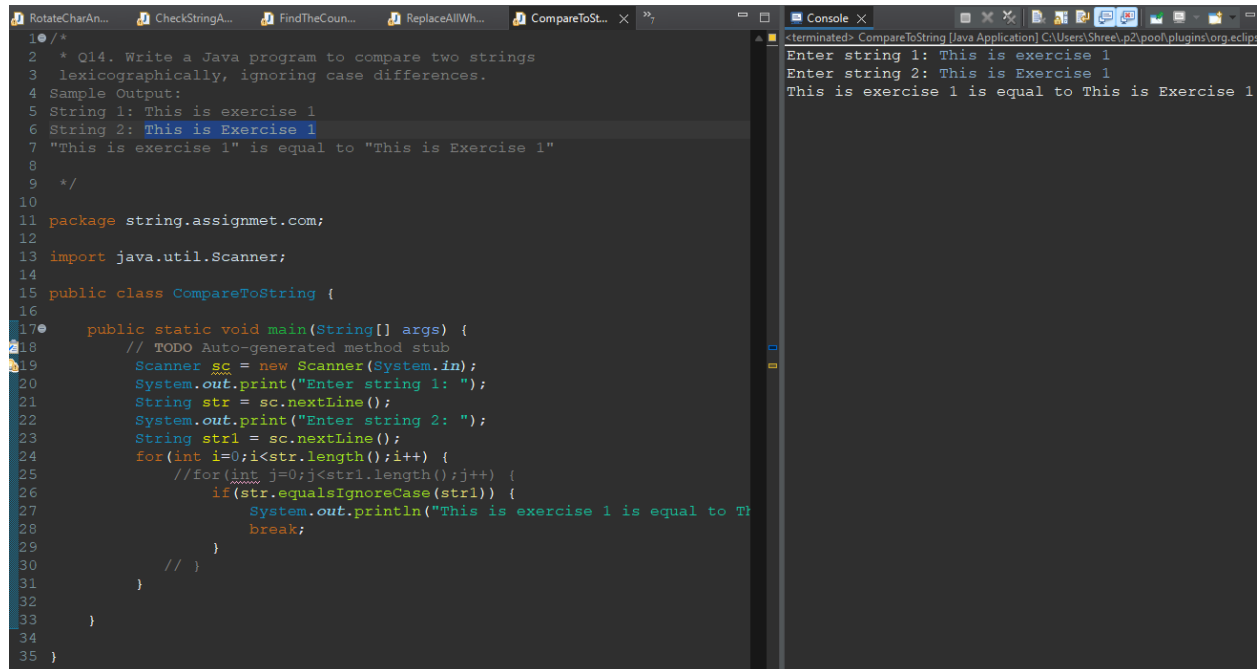

Q14. Write a Java program to compare two strings lexicographically, ignoring case differences.

Sample Output:

String 1: This is exercise 1

String 2: This is Exercise 1

"This is exercise 1" is equal to "This is Exercise 1"



The screenshot shows an IDE with a Java file named 'CompareToString.java' and a console window. The Java code is as follows:

```
1  /*
2   * Q14. Write a Java program to compare two strings
3   * lexicographically, ignoring case differences.
4   * Sample Output:
5   * String 1: This is exercise 1
6   * String 2: This is Exercise 1
7   * "This is exercise 1" is equal to "This is Exercise 1"
8   */
9
10
11 package string.assignmet.com;
12
13 import java.util.Scanner;
14
15 public class CompareToString {
16
17     public static void main(String[] args) {
18         // TODO Auto-generated method stub
19         Scanner sc = new Scanner(System.in);
20         System.out.print("Enter string 1: ");
21         String str = sc.nextLine();
22         System.out.print("Enter string 2: ");
23         String str1 = sc.nextLine();
24         for(int i=0;i<str.length();i++) {
25             //for(int j=0;j<str1.length();j++) {
26                 if(str.equalsIgnoreCase(str1)) {
27                     System.out.println("This is exercise 1 is equal to This is Exercise 1");
28                     break;
29                 }
30             // }
31         }
32     }
33 }
34
35 }
```

The console window shows the following output:

```
<terminated> CompareToString [Java Application] C:\Users\Shreeh.p2\poo\plugins\org.eclipse
Enter string 1: This is exercise 1
Enter string 2: This is Exercise 1
This is exercise 1 is equal to This is Exercise 1
```

Q15. WAP to reverse the word that are present at even index.

```
1  /*
2  * Q15. WAP to reverse the word that are present at even index.
3  */
4
5  package string.assignmet.com;
6
7  import java.util.Scanner;
8
9  public class ReplaceTheWordAtEvenInd {
10
11     public static void printRev(String str)
12     {
13         String s[] = str.split(" ");
14         for(int i=0;i<s.length;i+=2)
15         {
16             s[i] = rev(s[i]);
17         }
18         System.out.println("\nNew String : ");
19         for(int i=0;i<s.length;i++)
20         {
21             System.out.print(s[i]+" ");
22         }
23     }
24
25     public static String rev(String s)
26     {
27         char c[] = s.toCharArray();
28         char strch[] = new char[c.length];
29         int ind=0;
30         for(int i=c.length-1;i>=0;i--)
31         {
32             strch[ind++] = c[i];
33         }
34         String str = new String(strch);
35         return str;
36     }
37
38     public static void main(String[] args) {
39
40     }
41 }
42
43
44
```

Console Output:

```
<terminated> ReplaceTheWordAtEvenInd [Java Application]
Enter a String :
java is simple language

New String :
avaj is elpmis language
```

```
8
9 public class ReplaceTheWordAtEvenInd {
10
11     public static void printRev(String str)
12     {
13         String s[] = str.split(" ");
14         for(int i=0;i<s.length;i+=2)
15         {
16             s[i] = rev(s[i]);
17         }
18         System.out.println("\nNew String : ");
19         for(int i=0;i<s.length;i++)
20         {
21             System.out.print(s[i]+" ");
22         }
23     }
24
25     public static String rev(String s)
26     {
27         char c[] = s.toCharArray();
28         char strch[] = new char[c.length];
29         int ind=0;
30         for(int i=c.length-1;i>=0;i--)
31         {
32             strch[ind++] = c[i];
33         }
34         String str = new String(strch);
35         return str;
36     }
37
38     public static void main(String[] args) {
39         Scanner sc = new Scanner(System.in);
40         System.out.println("Enter a String : ");
41         String s = sc.nextLine();
42         ReplaceTheWordAtEvenInd.printRev(s);
43     }
44 }
```

Console Output:

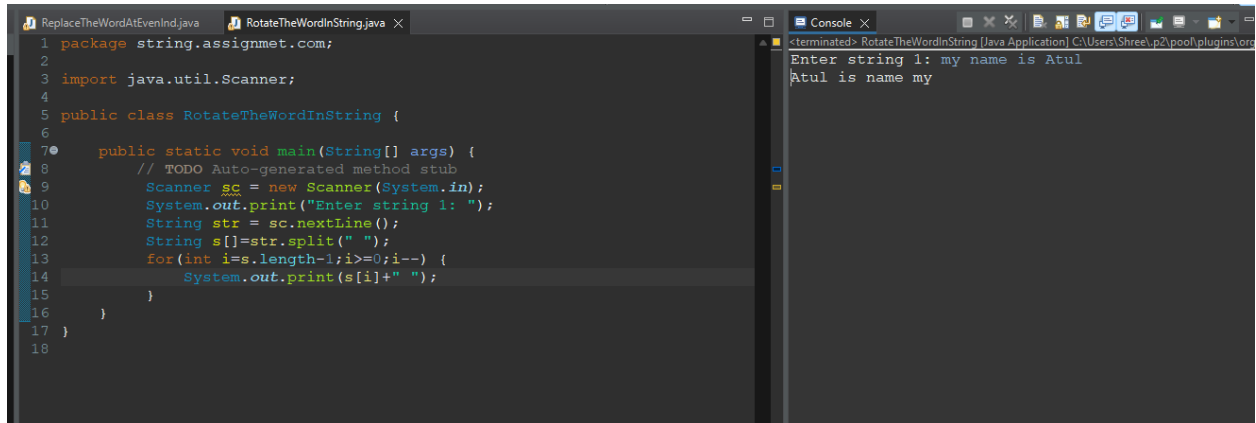
```
<terminated> ReplaceTheWordAtEvenInd [Java Application]
Enter a String :
java is simple language

New String :
avaj is elpmis language
```

Q16. write a program to rotate the word in string.

i/p : String s="my name is Atul";

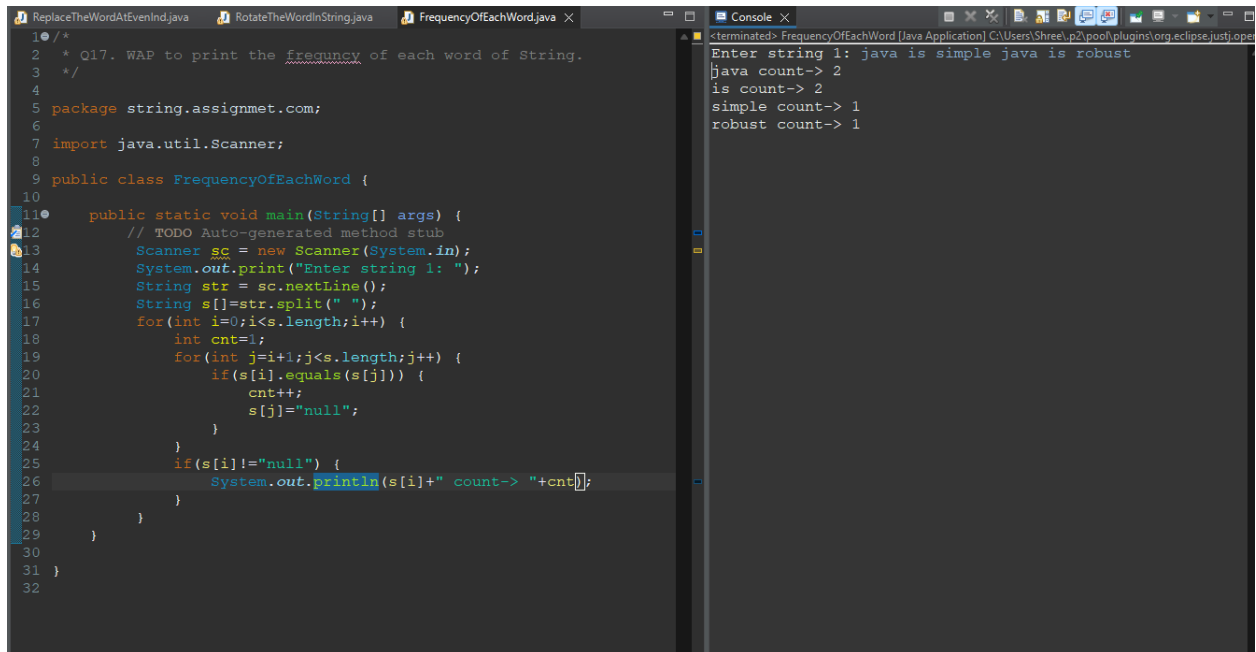
o/p : String s= Atul is name my";"



```
1 package string.assignmet.com;
2
3 import java.util.Scanner;
4
5 public class RotateTheWordInString {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner sc = new Scanner(System.in);
10        System.out.print("Enter string 1: ");
11        String str = sc.nextLine();
12        String s[]=str.split(" ");
13        for(int i=s.length-1;i>=0;i--) {
14            System.out.print(s[i]+" ");
15        }
16    }
17 }
18
```

Console Output:
Enter string 1: my name is Atul
Atul is name my

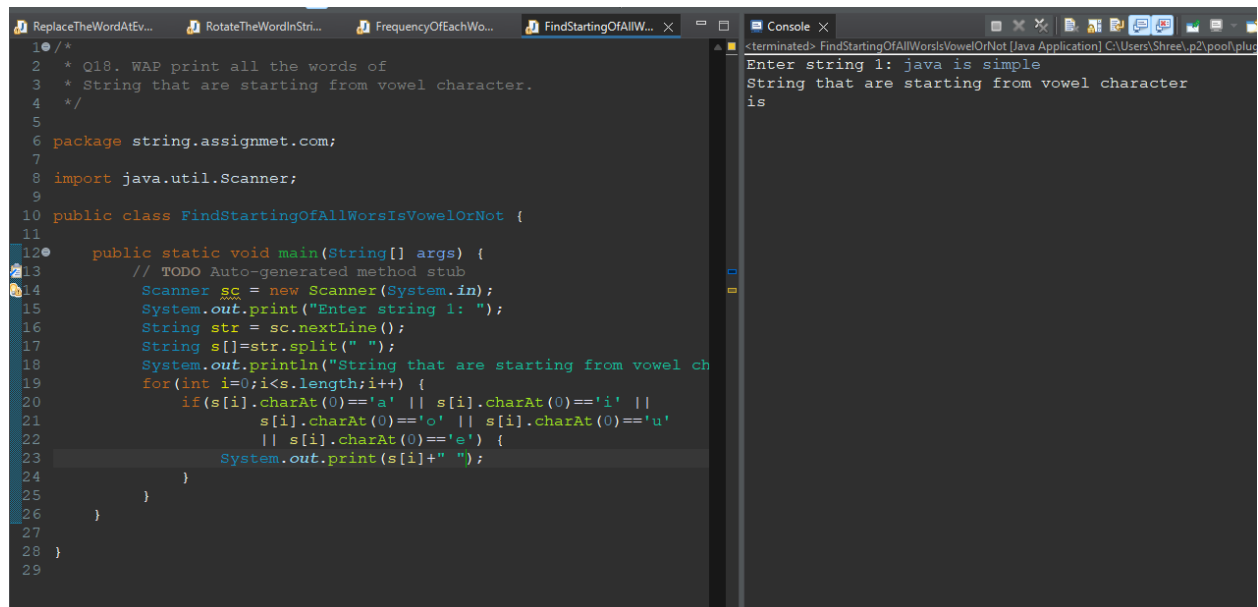
Q17. WAP to print the frequency of each word of String.



```
1 /*
2  * Q17. WAP to print the frequency of each word of String.
3  */
4
5 package string.assignmet.com;
6
7 import java.util.Scanner;
8
9 public class FrequencyOfEachWord {
10
11     public static void main(String[] args) {
12         // TODO Auto-generated method stub
13         Scanner sc = new Scanner(System.in);
14         System.out.print("Enter string 1: ");
15         String str = sc.nextLine();
16         String s[]=str.split(" ");
17         for(int i=0;i<s.length;i++) {
18             int cnt=1;
19             for(int j=i+1;j<s.length;j++) {
20                 if(s[i].equals(s[j])) {
21                     cnt++;
22                     s[j]="null";
23                 }
24             }
25             if(s[i]!="null") {
26                 System.out.println(s[i]+" count-> "+cnt);
27             }
28         }
29     }
30 }
31 }
32
```

Console Output:
Enter string 1: java is simple java is robust
java count-> 2
is count-> 2
simple count-> 1
robust count-> 1

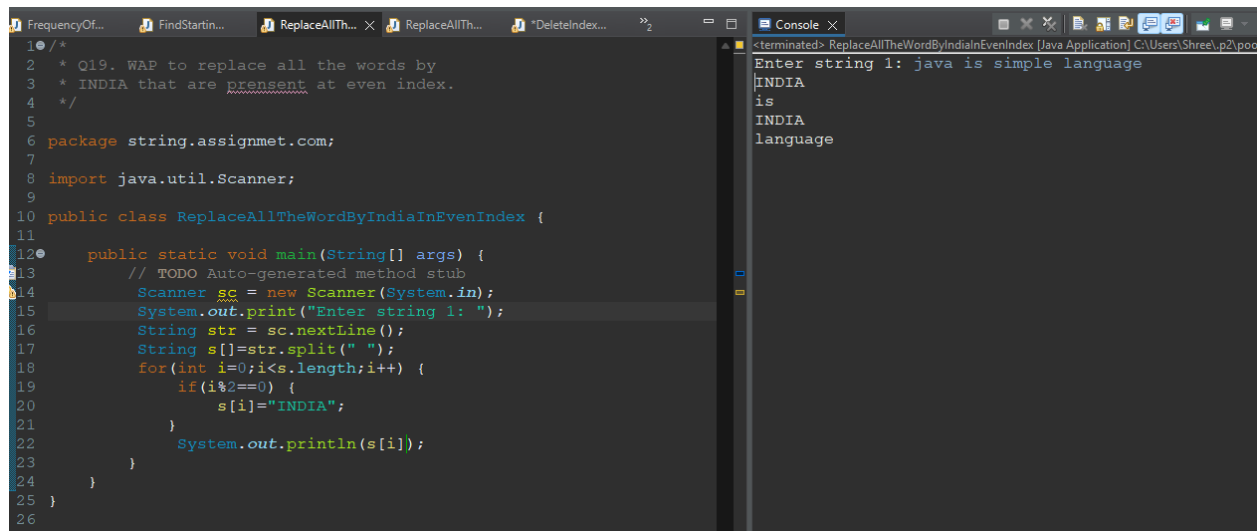
Q18. WAP print all the words of String that are starting from vowel character.



```
1 /*
2  * Q18. WAP print all the words of
3  * String that are starting from vowel character.
4  */
5
6 package string.assignmet.com;
7
8 import java.util.Scanner;
9
10 public class FindStartingOfAllWorsIsVowelOrNot {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         Scanner sc = new Scanner(System.in);
15         System.out.print("Enter string 1: ");
16         String str = sc.nextLine();
17         String s[]=str.split(" ");
18         System.out.println("String that are starting from vowel ch
19         for(int i=0;i<s.length;i++) {
20             if(s[i].charAt(0)=='a' || s[i].charAt(0)=='i' ||
21                s[i].charAt(0)=='o' || s[i].charAt(0)=='u'
22                || s[i].charAt(0)=='e') {
23                 System.out.print(s[i]+" ");
24             }
25         }
26     }
27 }
28
29
```

Console output:
<terminated> FindStartingOfAllWorsIsVowelOrNot [Java Application] C:\Users\Shree\p2\pool\plu
Enter string 1: java is simple
String that are starting from vowel character
is

Q19. WAP to replace all the words by INDIA that are prensent at even index.



```
1 /*
2  * Q19. WAP to replace all the words by
3  * INDIA that are prensent at even index.
4  */
5
6 package string.assignmet.com;
7
8 import java.util.Scanner;
9
10 public class ReplaceAllTheWordByIndiaInEvenIndex {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         Scanner sc = new Scanner(System.in);
15         System.out.print("Enter string 1: ");
16         String str = sc.nextLine();
17         String s[]=str.split(" ");
18         for(int i=0;i<s.length;i++) {
19             if(i%2==0) {
20                 s[i]="INDIA";
21             }
22             System.out.println(s[i]);
23         }
24     }
25 }
26
```

Console output:
<terminated> ReplaceAllTheWordByIndialnEvenIndex [Java Application] C:\Users\Shree\p2\poo
Enter string 1: java is simple language
[INDIA
is
INDIA
language

Q20. WAP to replace all the words by welcome that are presenta at odd position.

```
1 package string.assignmet.com;
2
3 import java.util.Scanner;
4
5 public class ReplaceAllTheWordByWelcomeInOddIndex {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner sc = new Scanner(System.in);
10        System.out.print("Enter string 1: ");
11        String str = sc.nextLine();
12        String s[]=str.split(" ");
13        for(int i=0;i<s.length;i++) {
14            if(i%2!=0) {
15                s[i]="welcome";
16            }
17            System.out.print(s[i]+" ");
18        }
19    }
20 }
21
```

Console

```
<terminated> ReplaceAllTheWordByWelcomeInOddIndex [Java Application] C:\Users\Shree\
Enter string 1: java is simple language
java welcome simple welcome
```

Q21. String s="Welcome to the India"

Output: Wlcme t th nd

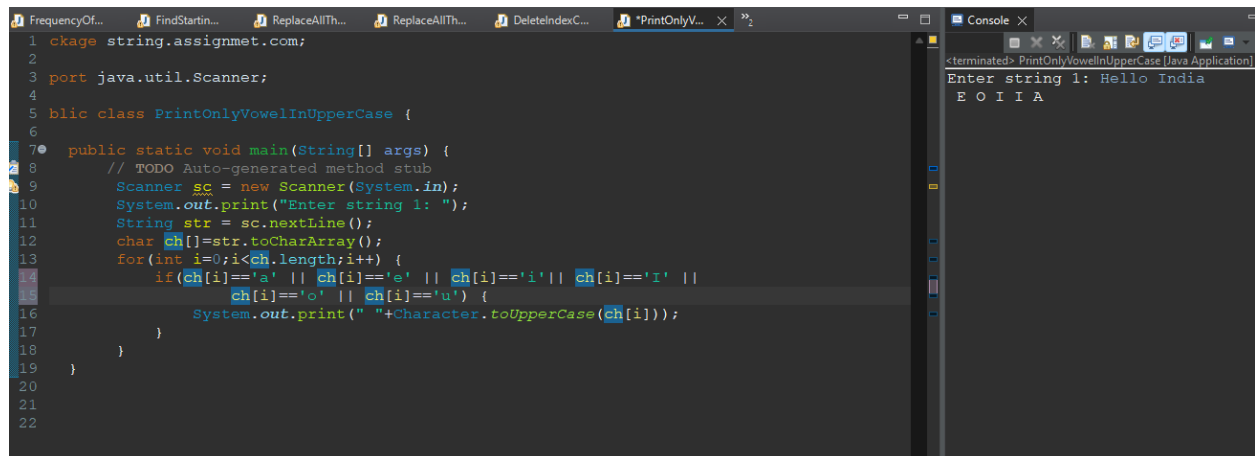
```
1 /*
2  * Q21. String s="Welcome to the India"
3  *   Output: Wlcme t th nd
4  */
5
6
7 package string.assignmet.com;
8
9 import java.util.Scanner;
10
11 public class DeleteIndexChar {
12
13     public static void main(String[] args) {
14         // TODO Auto-generated method stub
15         Scanner sc = new Scanner(System.in);
16         System.out.print("Enter string 1: ");
17         String str = sc.nextLine();
18         char ch[]=str.toCharArray();
19         for(int i=0;i<ch.length;i++) {
20             if(ch[i]=='a' || ch[i]=='e' || ch[i]=='i' || ch[i]=='o')
21                 continue;
22             System.out.print(ch[i]+" ");
23         }
24     }
25 }
26
27
28
```

Console

```
<terminated> DeleteIndexChar [Java Application] C:\Users\Shree\p2\poo\plugins\org.eclipse
Enter string 1: Welcome to the India
W l c m e t t h I n d
```

Q22. String s1="Hello India"

Output: EO IIA



The screenshot shows a Java IDE with a code editor and a console window. The code in the editor is as follows:

```
1 package string.assignmet.com;
2
3 import java.util.Scanner;
4
5 public class PrintOnlyVowelInUpperCase {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner sc = new Scanner(System.in);
10        System.out.print("Enter string 1: ");
11        String str = sc.nextLine();
12        char ch[]=str.toCharArray();
13        for(int i=0;i<ch.length;i++) {
14            if(ch[i]=='a' || ch[i]=='e' || ch[i]=='i' || ch[i]=='I' ||
15               ch[i]=='o' || ch[i]=='u') {
16                System.out.print(" "+Character.toUpperCase(ch[i]));
17            }
18        }
19    }
20 }
21
22
```

The console window on the right shows the execution output:

```
<terminated> PrintOnlyVowelInUpperCase [Java Application]
Enter string 1: Hello India
E O I I A
```