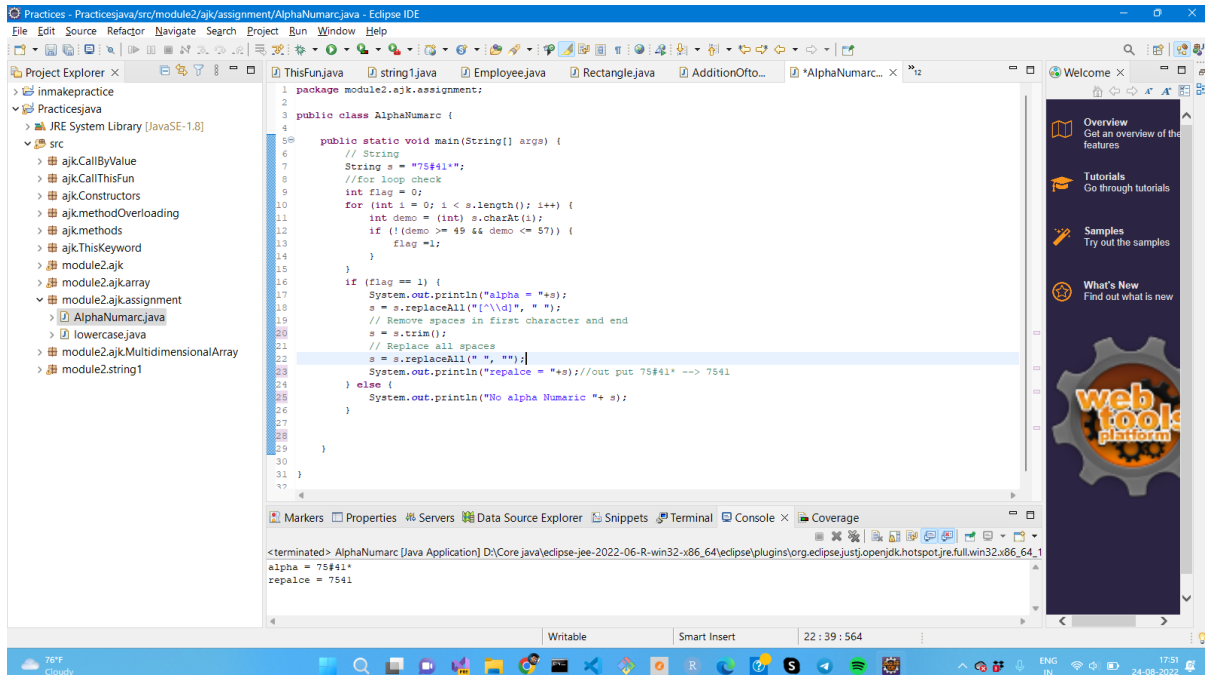


1. Write a java Program to display only digits in an alpha numeric String  
(Input: 75#41\* Output:7541)



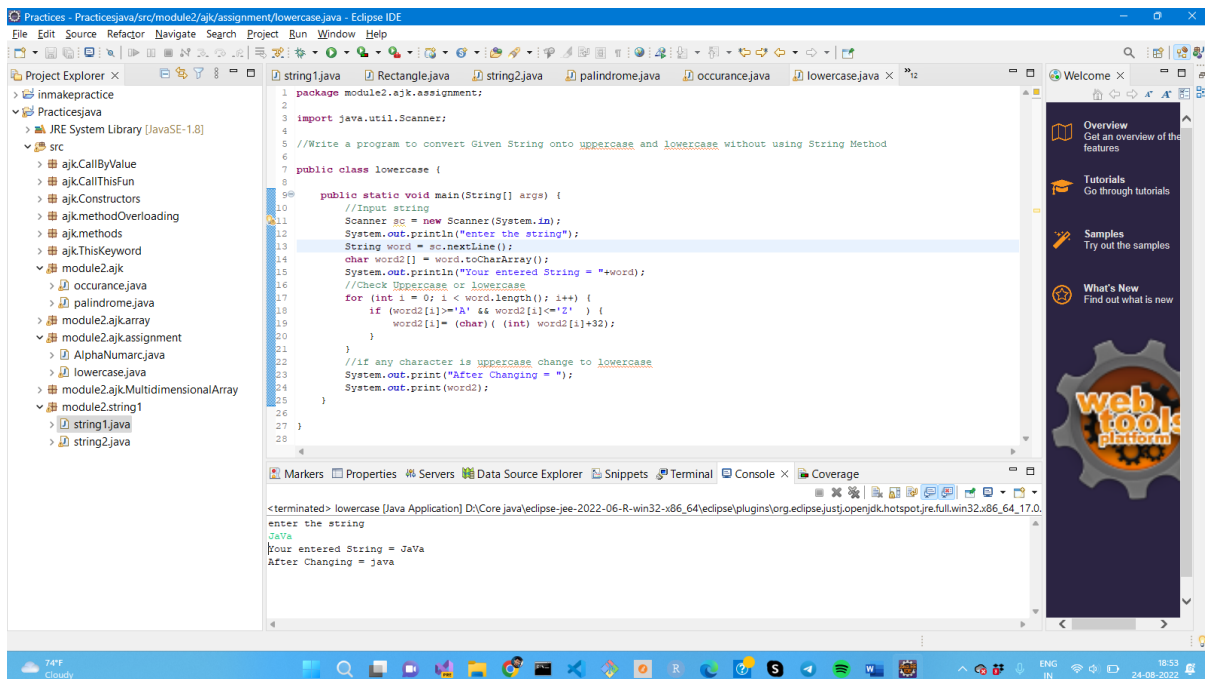
The screenshot shows the Eclipse IDE with a Java project named 'Practices'. The 'Project Explorer' on the left shows the package structure. The 'Package Explorer' on the right shows the package structure. The 'Code Editor' in the center displays the following Java code:

```
1 package module2.a.jk.assignment;
2
3 public class AlphaNumeric {
4
5     public static void main(String[] args) {
6         // String
7         String s = "75#41*";
8         //for loop check
9         int flag = 0;
10        for (int i = 0; i < s.length(); i++) {
11            int demo = (int) s.charAt(i);
12            if (!(demo >= 48 && demo <= 57)) {
13                flag = 1;
14            }
15        }
16        if (flag == 1) {
17            System.out.println("alpha = "+s);
18            s = s.replaceAll("[^\\d]", "");
19            // Remove spaces in first character and end
20            s = s.trim();
21            // Replace all spaces
22            s = s.replaceAll(" ", "");
23            System.out.println("repalce = "+s);//out put 75#41* --> 7541
24        } else {
25            System.out.println("No alpha Numeric "+ s);
26        }
27    }
28 }
29
30
31 }
```

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

```
<terminated> AlphaNumeric [Java Application] D:\Core java\edipse-jee-2022-06-R-win32-x86_64\edipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0
alpha = 75#41*
repalce = 7541
```

2. Write a program to convert Given String onto uppercase and lowercase without using String Method



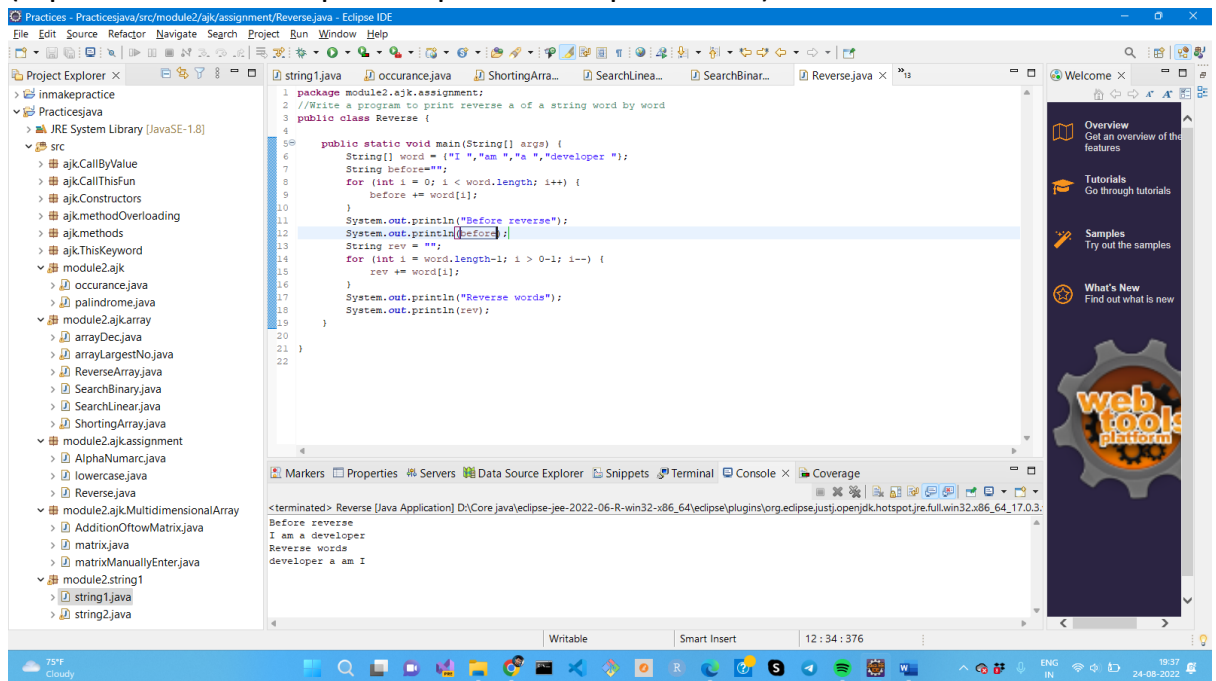
The screenshot shows the Eclipse IDE with a Java project named 'Practices'. The 'Project Explorer' on the left shows the package structure. The 'Package Explorer' on the right shows the package structure. The 'Code Editor' in the center displays the following Java code:

```
1 package module2.a.jk.assignment;
2
3 import java.util.Scanner;
4
5 //Write a program to convert Given String onto UPPERCASE and lowercase without using String Method
6
7 public class lowercase {
8
9     public static void main(String[] args) {
10        //Input string
11        Scanner sc = new Scanner(System.in);
12        System.out.println("enter the string");
13        String word = sc.nextLine();
14        char word2[] = word.toCharArray();
15        System.out.println("Your entered String = "+word);
16        //Check Uppercase or lowercase
17        for (int i = 0; i < word.length(); i++) {
18            if (word2[i] >= 'A' && word2[i] <= 'Z') {
19                word2[i] = (char) (int) word2[i] + 32;
20            }
21        }
22        //if any character is uppercase change to lowercase
23        System.out.print("After Changing = ");
24        System.out.print(word2);
25    }
26 }
27
28 }
```

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

```
<terminated> lowercase [Java Application] D:\Core java\edipse-jee-2022-06-R-win32-x86_64\edipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0
enter the string
JaVa
Your entered String = JaVa
After changing = java
```

3. Write a program to print reverse a of a string word by word  
(Input: I am a developer Output: developer a am I)



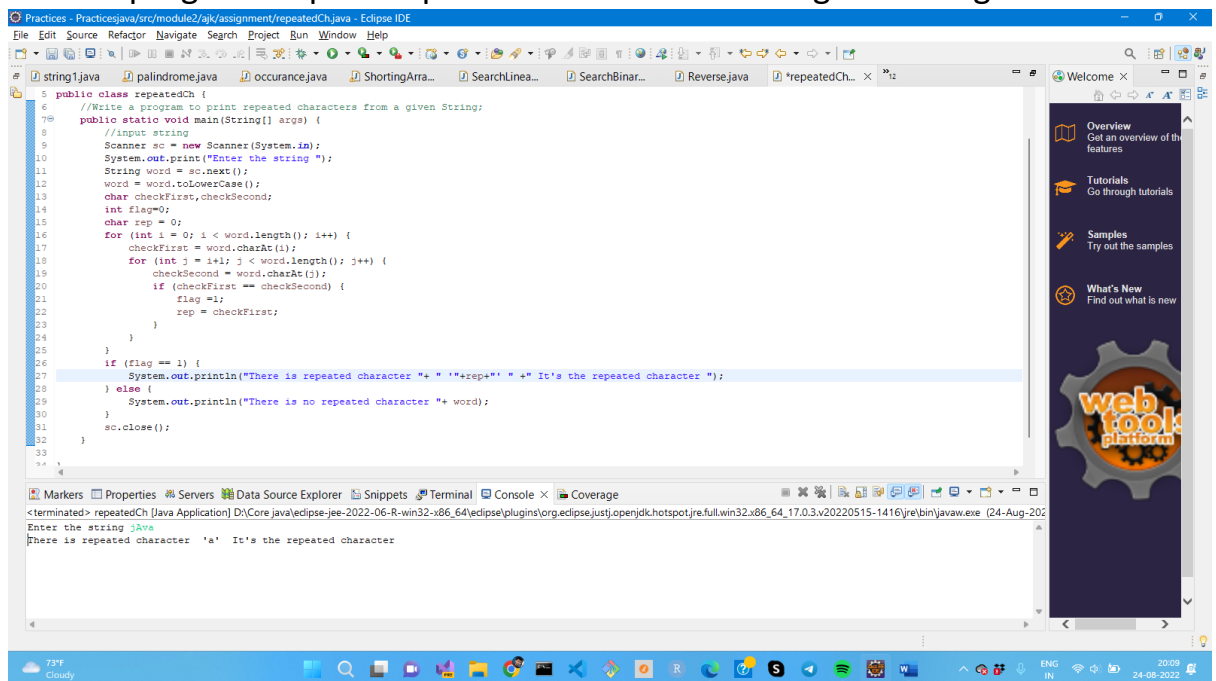
The screenshot shows the Eclipse IDE with a Java project named 'Practices'. The 'src' folder contains a package 'module2' with a file 'Reverse.java'. The code in 'Reverse.java' is as follows:

```
1 package module2.assignment;
2 //Write a program to print reverse a of a string word by word
3 public class Reverse {
4
5     public static void main(String[] args) {
6         String[] word = {"I", "am", "a", "developer "};
7         String before="";
8         for (int i = 0; i < word.length; i++) {
9             before += word[i];
10        }
11        System.out.println("Before reverse");
12        System.out.println(before);
13        String rev = "";
14        for (int i = word.length-1; i > 0; i--) {
15            rev += word[i];
16        }
17        System.out.println("Reverse words");
18        System.out.println(rev);
19    }
20 }
21 }
22 }
```

The console output shows the following:

```
<terminated> Reverse [Java Application] D:\Core java\ eclipse-jee-2022-06-R-win32-x86_64\ eclipse\ plugins\ org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.3
Before reverse
I am a developer
Reverse words
developer a am I
```

4. Write a program to print repeated characters from a given String



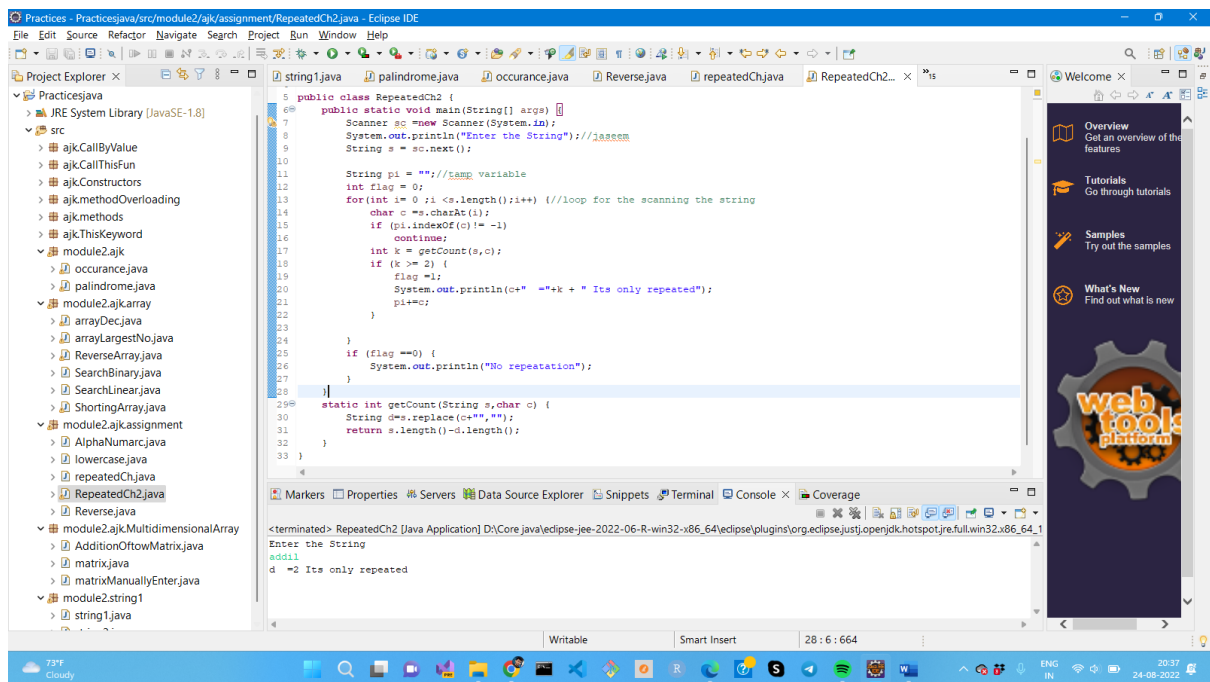
The screenshot shows the Eclipse IDE with a Java project named 'Practices'. The 'src' folder contains a package 'module2' with a file 'repeatedCh.java'. The code in 'repeatedCh.java' is as follows:

```
5 public class repeatedCh {
6     //Write a program to print repeated characters from a given String;
7     public static void main(String[] args) {
8         //input string
9         Scanner sc = new Scanner(System.in);
10        System.out.print("Enter the string ");
11        String word = sc.next();
12        word = word.toLowerCase();
13        char checkFirst, checkSecond;
14        int flag=0;
15        char rep = 0;
16        for (int i = 0; i < word.length(); i++) {
17            checkFirst = word.charAt(i);
18            for (int j = i+1; j < word.length(); j++) {
19                checkSecond = word.charAt(j);
20                if (checkFirst == checkSecond) {
21                    flag = 1;
22                    rep = checkFirst;
23                }
24            }
25        }
26        if (flag == 1) {
27            System.out.println("There is repeated character " + rep + " It's the repeated character ");
28        } else {
29            System.out.println("There is no repeated character " + word);
30        }
31        sc.close();
32    }
33 }
```

The console output shows the following:

```
<terminated> repeatedCh [Java Application] D:\Core java\ eclipse-jee-2022-06-R-win32-x86_64\ eclipse\ plugins\ org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.3.v20220515-1416\ jre\ bin\ javaw.exe (24-Aug-2022
Enter the string java
There is repeated character 'a' It's the repeated character
```

OR



## 5. Write a program to count number of vowels in a given String

