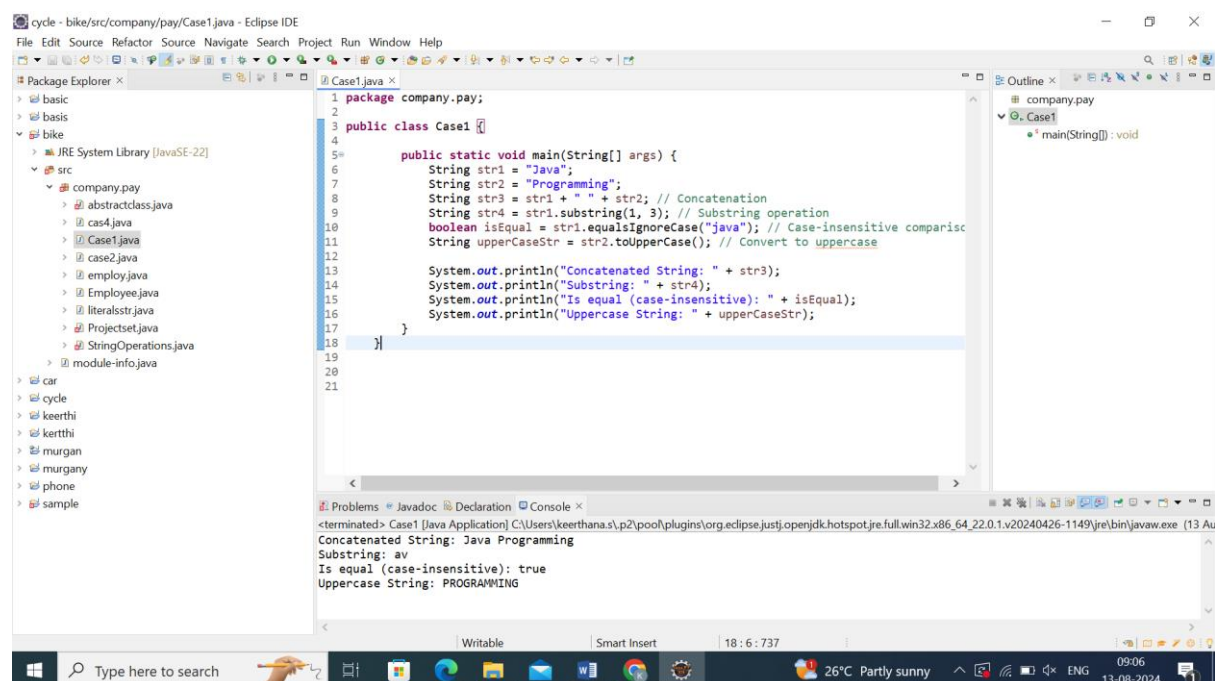


## Weekend Assignment in Java

1. Please find case 1 and mention the result for the mentioned statements using strings.
2. Find case 2 and mention the result for the statements using integers.
3. Find case 3 and mention how Basic I/O resources are getting closed and the difference that you implemented earlier in the code - copyBytes.java
4. Find case 4 and mention the order for 1,2 and 3 using collections

Answers:-



```
1 package company.pay;
2
3 public class Case1 {
4
5     public static void main(String[] args) {
6         String str1 = "Java";
7         String str2 = "Programming";
8         String str3 = str1 + " " + str2; // Concatenation
9         String str4 = str1.substring(1, 3); // Substring operation
10        boolean isEqual = str1.equalsIgnoreCase("java"); // Case-insensitive comparison
11        String upperCaseStr = str2.toUpperCase(); // Convert to uppercase
12
13        System.out.println("Concatenated String: " + str3);
14        System.out.println("Substring: " + str4);
15        System.out.println("Is equal (case-insensitive): " + isEqual);
16        System.out.println("Uppercase String: " + upperCaseStr);
17    }
18 }
19
20
21
```

Console Output:

```
<terminated> Case1 [Java Application] C:\Users\keerthana.s\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-1149\jre\bin\javaw.exe (13 Au
Concatenated String: Java Programming
Substring: av
Is equal (case-insensitive): true
Uppercase String: PROGRAMMING
```

## Case-2

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Displays the project structure. The 'src' folder contains a 'company.pay' package with files: 'abstractclass.java', 'cas4.java', 'Case1.java', 'case2.java', 'Case22.java', 'employ.java', 'Employee.java', 'literalsr.java', 'Projectset.java', 'StringOperations.java', and 'module-info.java'.
- Editor:** Shows the code for 'Case1.java'. The code is as follows:

```
1 package company.pay;
2
3 public class Case1 {
4
5     public static void main(String[] args) {
6         String str1 = "Java";
7         String str2 = "Programming";
8         String str3 = str1 + " " + str2; // Concatenation
9         String str4 = str1.substring(1, 3); // Substring operation
10        boolean isEqual = str1.equalsIgnoreCase("java"); // Case-insensitive comparison
11        String upperCaseStr = str2.toUpperCase(); // Convert to uppercase
12
13        System.out.println("Concatenated String: " + str3);
14        System.out.println("Substring: " + str4);
15        System.out.println("Is equal (case-insensitive): " + isEqual);
16        System.out.println("Uppercase String: " + upperCaseStr);
17    }
18 }
19
20
21
```
- Outline:** Shows the class 'Case1' with a single method 'main(String[]): void'.
- Console:** Displays the output of the program:

```
<terminated> Case1 [Java Application] C:\Users\keerthana.s\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-1149\jre\bin\javaw.exe (13 Au
Concatenated String: Java Programming
Substring: av
Is equal (case-insensitive): true
Uppercase String: PROGRAMMING
```
- Problems:** A message at the bottom left states: 'The word 'uppercase' is not correctly spelled'.

