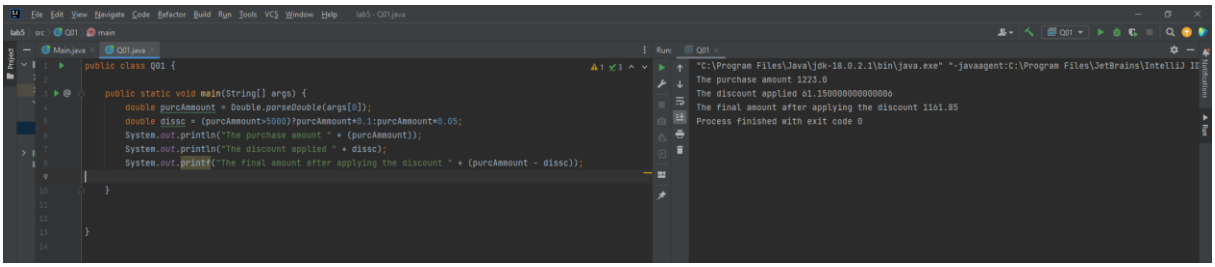
BECS 12243 - Object Oriented Programming
Tutorial 05
EC/2022/053

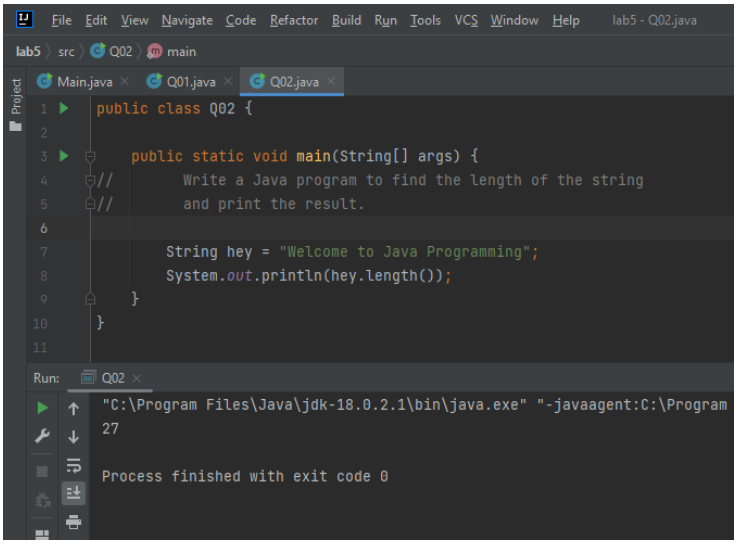
01.



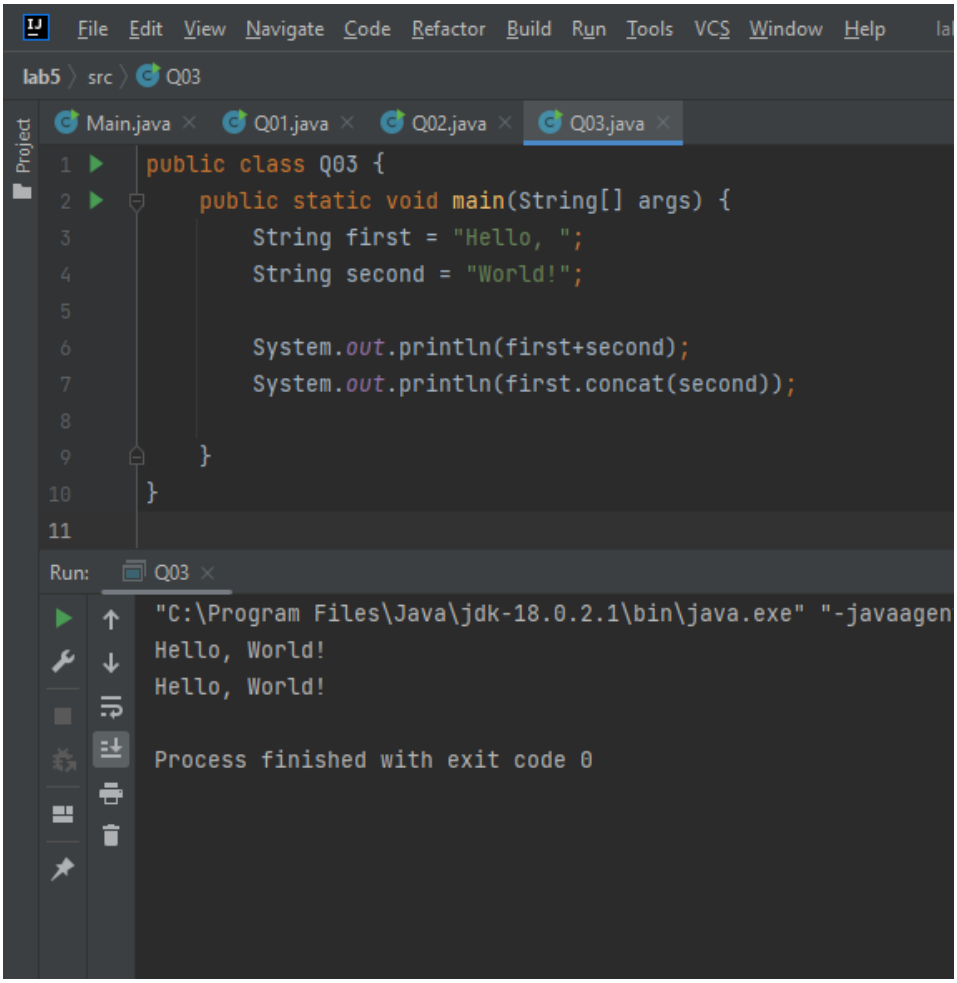

```java
public class Q01 {

    public static void main(String[] args) {
        double purcAmmount = Double.parseDouble(args[0]);
        double dissc = (purcAmmount>5000)?purcAmmount*0.1:purcAmmount*0.05;
        System.out.println("The purchase amount " + (purcAmmount));
        System.out.println("The discount applied " + dissc);
        System.out.printf("The final amount after applying the discount " +
(purcAmmount - dissc));

    }
}
```

02.

```
public class Q02 {

    public static void main(String[] args) {
//        Write a Java program to find the length of the string
//        and print the result.

        String hey = "Welcome to Java Programming";
        System.out.println(hey.length());
    }
}
```

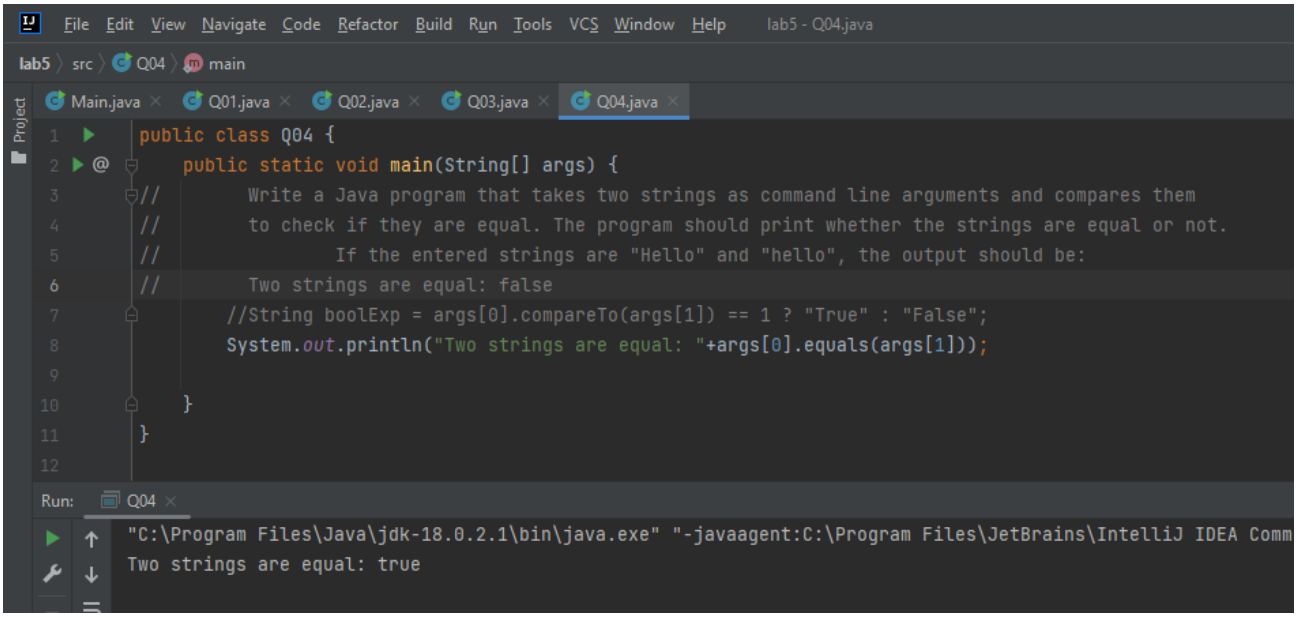


03.




```java
public class Q03 {
    public static void main(String[] args) {
        String first = "Hello, ";
        String second = "World!";

        System.out.println(first+second);
        System.out.println(first.concat(second));

    }
}
```

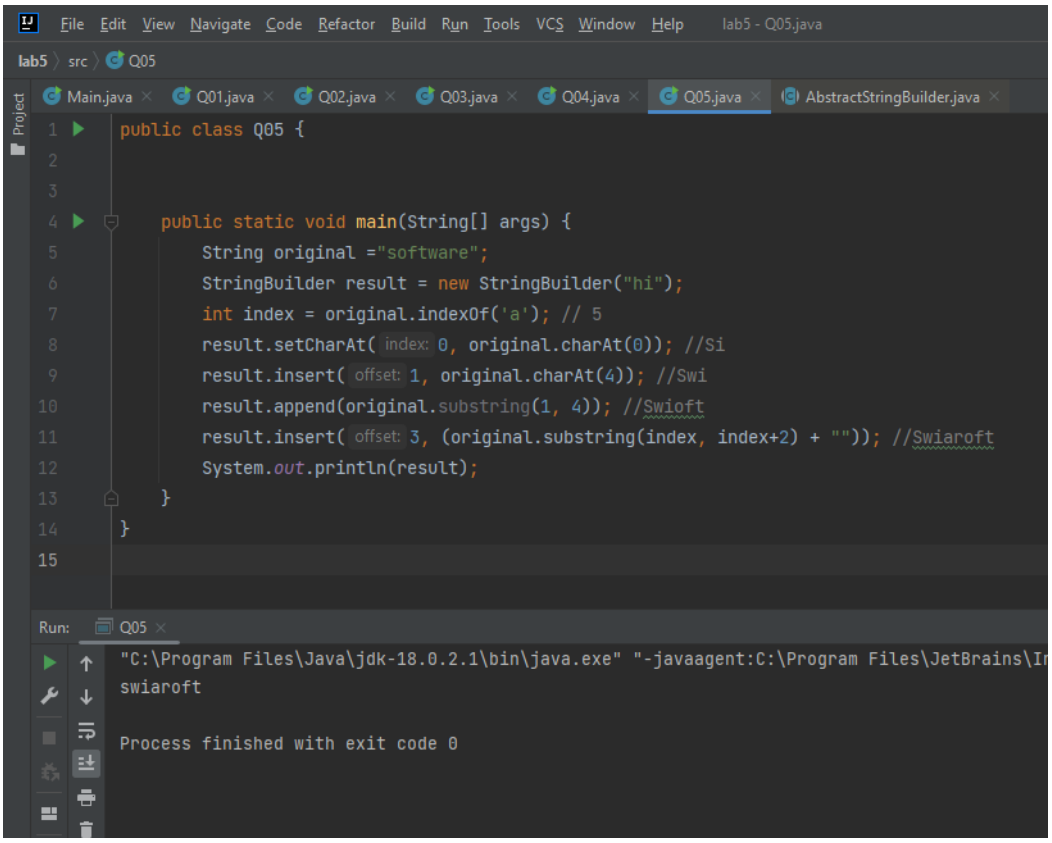
04.



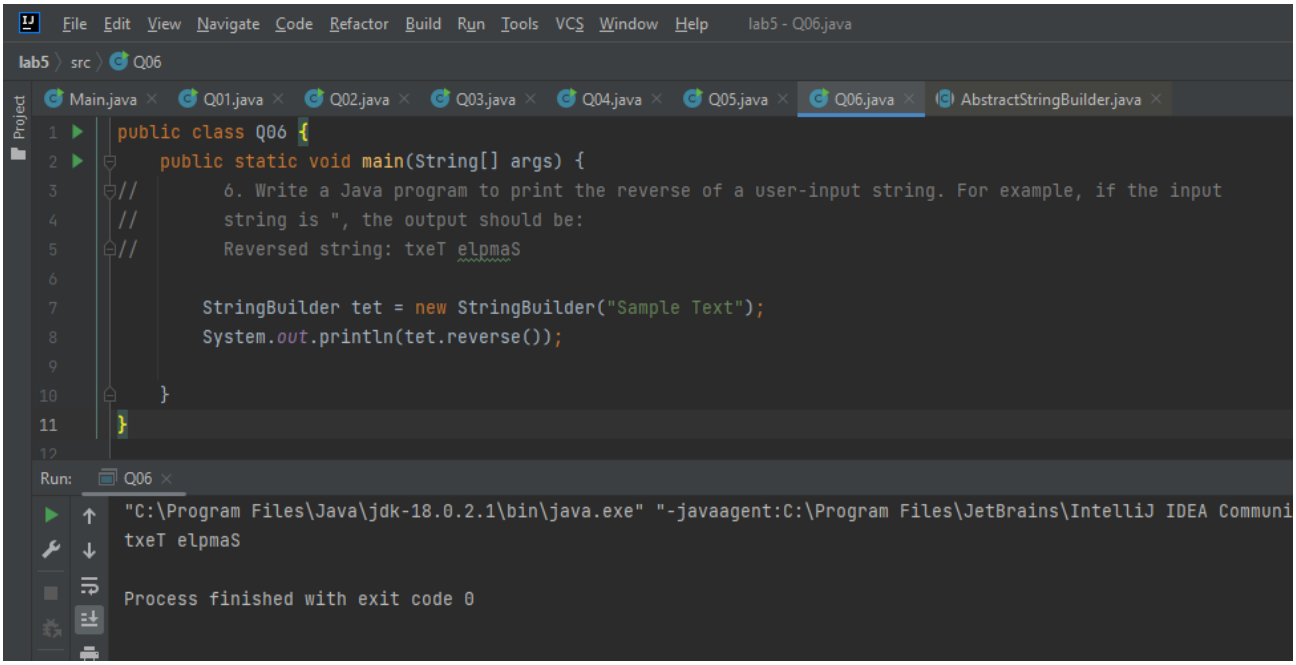

```
public class Q04 {
    public static void main(String[] args) {
//        Write a Java program that takes two strings as command line
//        Two strings are equal: false
        //String boolExp = args[0].compareTo(args[1]) == 1 ? "True" :
        System.out.println("Two strings are equal:
"+args[0].equals(args[1]));

    }
}
```

5.

```
public class Q05 {


    public static void main(String[] args) {
        String original ="software";
        StringBuilder result = new StringBuilder("hi");
        int index = original.indexOf('a'); // 5
        result.setCharAt(0, original.charAt(0)); //Si
        result.insert(1, original.charAt(4)); //Swi
        result.append(original.substring(1, 4)); //Swioft
        result.insert(3, (original.substring(index, index+2) + ""));
//Swiaroft
        System.out.println(result);
    }
}
```

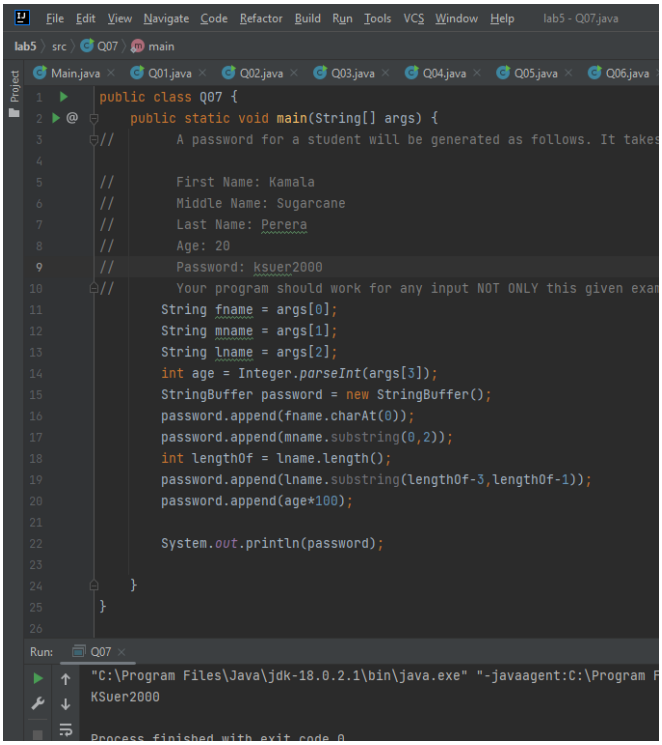


06.



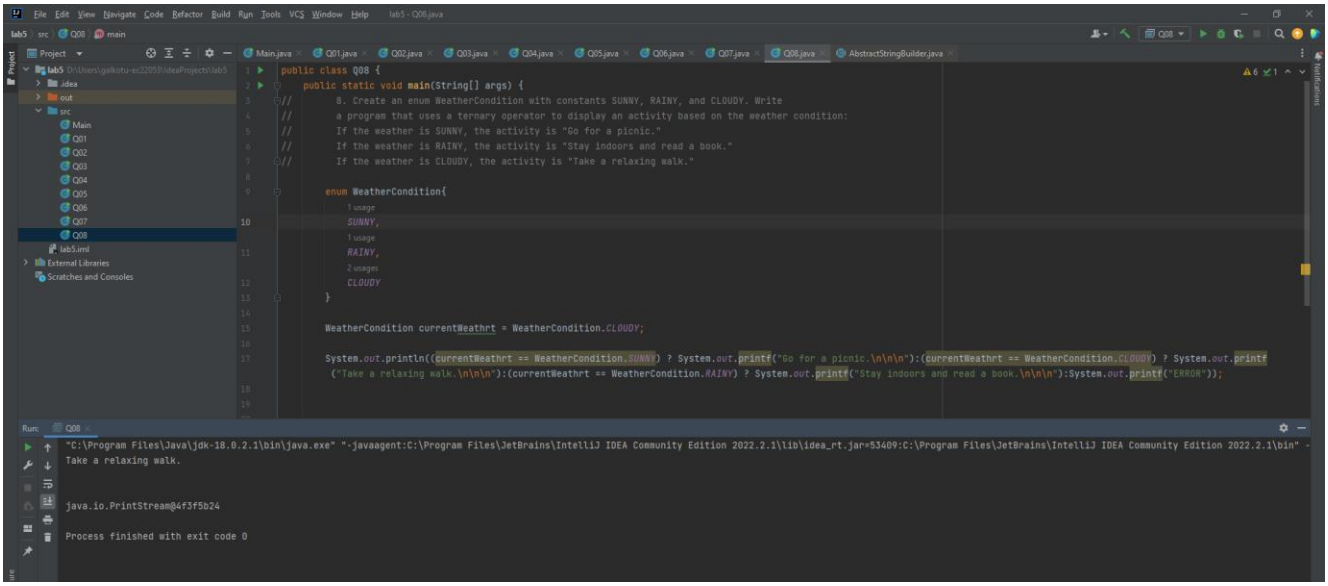

```
public class Q06 {
    public static void main(String[] args) {
//        6. Write a Java program to print the reverse of a user-input
string. For example, if the input
//        string is ", the output should be:
//        Reversed string: txeT elpmaS

        StringBuilder tet = new StringBuilder("Sample Text");
        System.out.println(tet.reverse());

    }
}
```

07.




```java
public class Q07 {
    public static void main(String[] args) {
//        A password for a student will be generated as follows. It takes the
first letter from the first

//        First Name: Kamala
//        Middle Name: Sugarcane
//        Last Name: Perera
//        Age: 20
//        Password: ksuer2000z
//        Your program should work for any input NOT ONLY this given example
in the exercise.
        String fname = args[0];
        String mname = args[1];
        String lname = args[2];
        int age = Integer.parseInt(args[3]);
        StringBuffer password = new StringBuffer();
        password.append(fname.charAt(0));
        password.append(mname.substring(0,2));
        int lengthOf = lname.length();
        password.append(lname.substring(lengthOf-3,lengthOf-1));
        password.append(age*100);

        System.out.println(password);

    }
}
```

08.

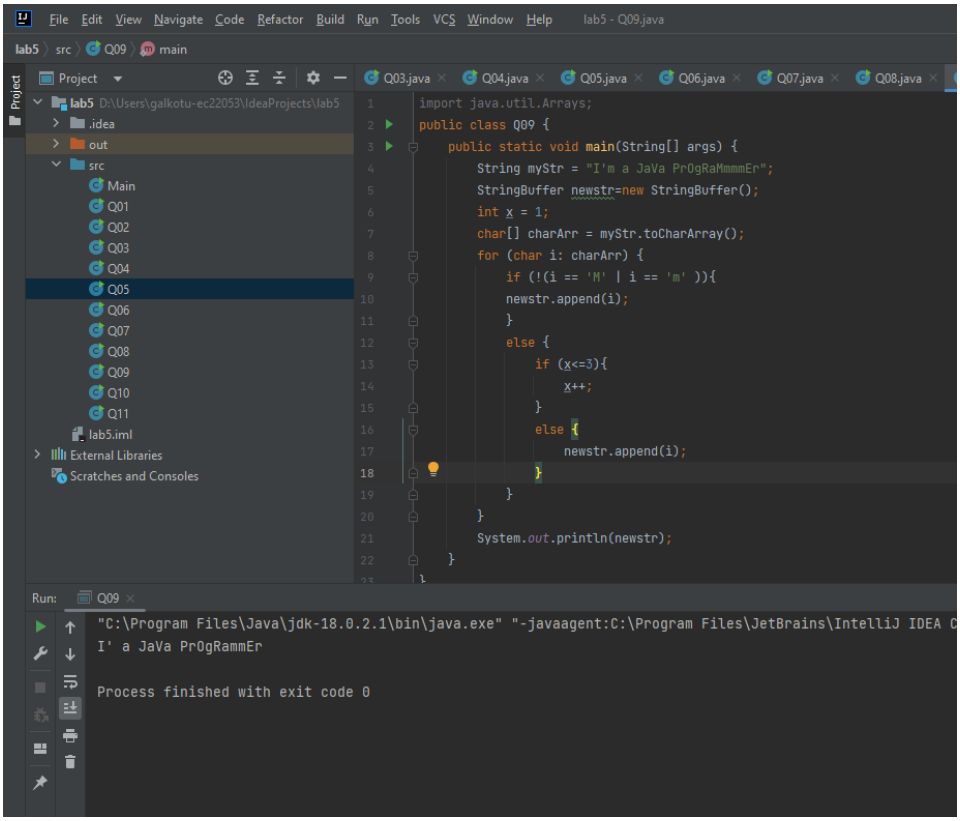



```java
public class Q08 {
    public static void main(String[] args) {
//        8. Create an enum WeatherCondition with constants SUNNY, RAINY, and
CLOUDY. Write
//        a program that uses a ternary operator to display an activity based
on the weather condition:
//        If the weather is SUNNY, the activity is "Go for a picnic."
//        If the weather is RAINY, the activity is "Stay indoors and read a
book."
//        If the weather is CLOUDY, the activity is "Take a relaxing walk."

        enum WeatherCondition{
            SUNNY,
            RAINY,
            CLOUDY
        }

        WeatherCondition currentWeathrt = WeatherCondition.RAINY;

        System.out.println((currentWeathrt == WeatherCondition.SUNNY) ?
System.out.printf("Go for a picnic.\n\n\n"):(currentWeathrt ==
WeatherCondition.CLOUDY) ? System.out.printf("Take a relaxing
walk.\n\n\n"):(currentWeathrt == WeatherCondition.RAINY) ?
System.out.printf("Stay indoors and read a
book.\n\n\n"):System.out.printf("ERROR"));




    }
}
```

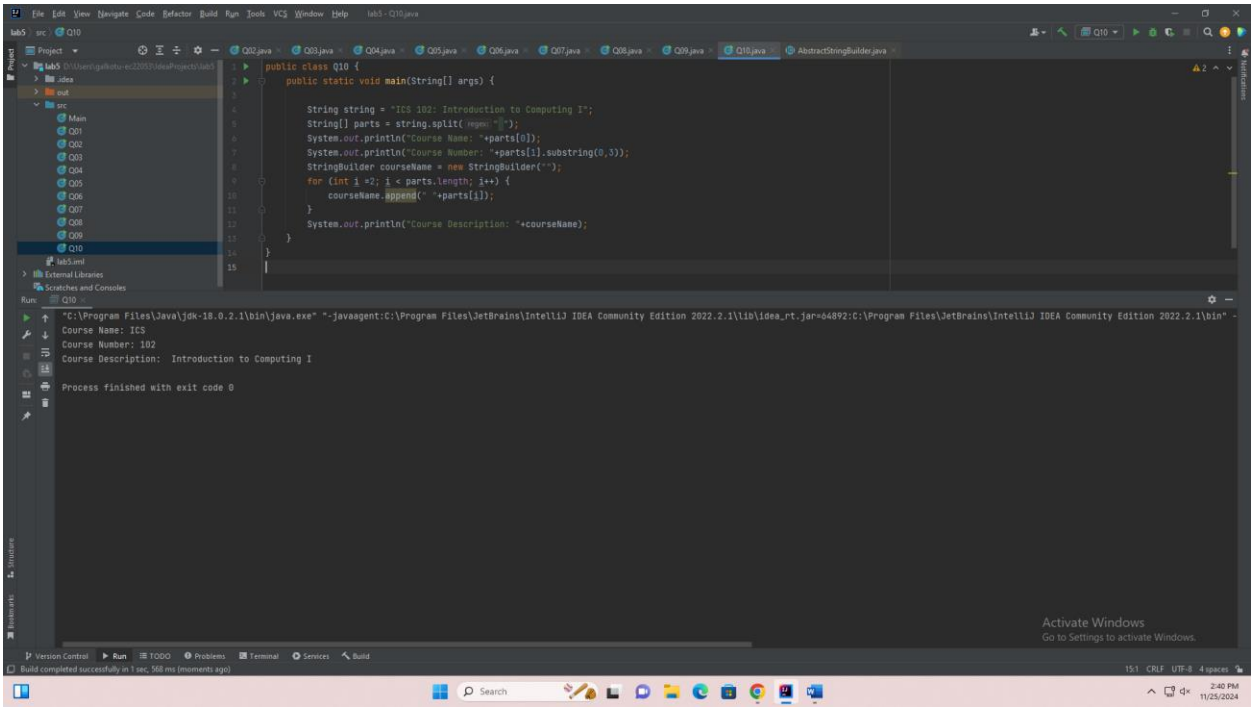
09.

a.

```
import java.util.Arrays;
public class Q09 {
    public static void main(String[] args) {
        String myStr = "I'm a JaVa PrOgRaMmmmEr";
        StringBuffer newstr=new StringBuffer();
        int x = 1;
        char[] charArr = myStr.toCharArray();
        for (char i: charArr) {
            if (!(i == 'M' | i == 'm' )){
            newstr.append(i);
            }
            else {
                if (x<=3){
                    x++;
                }
                else {
                    newstr.append(i);
                }
            }
        }
        System.out.println(newstr);
    }
}
```

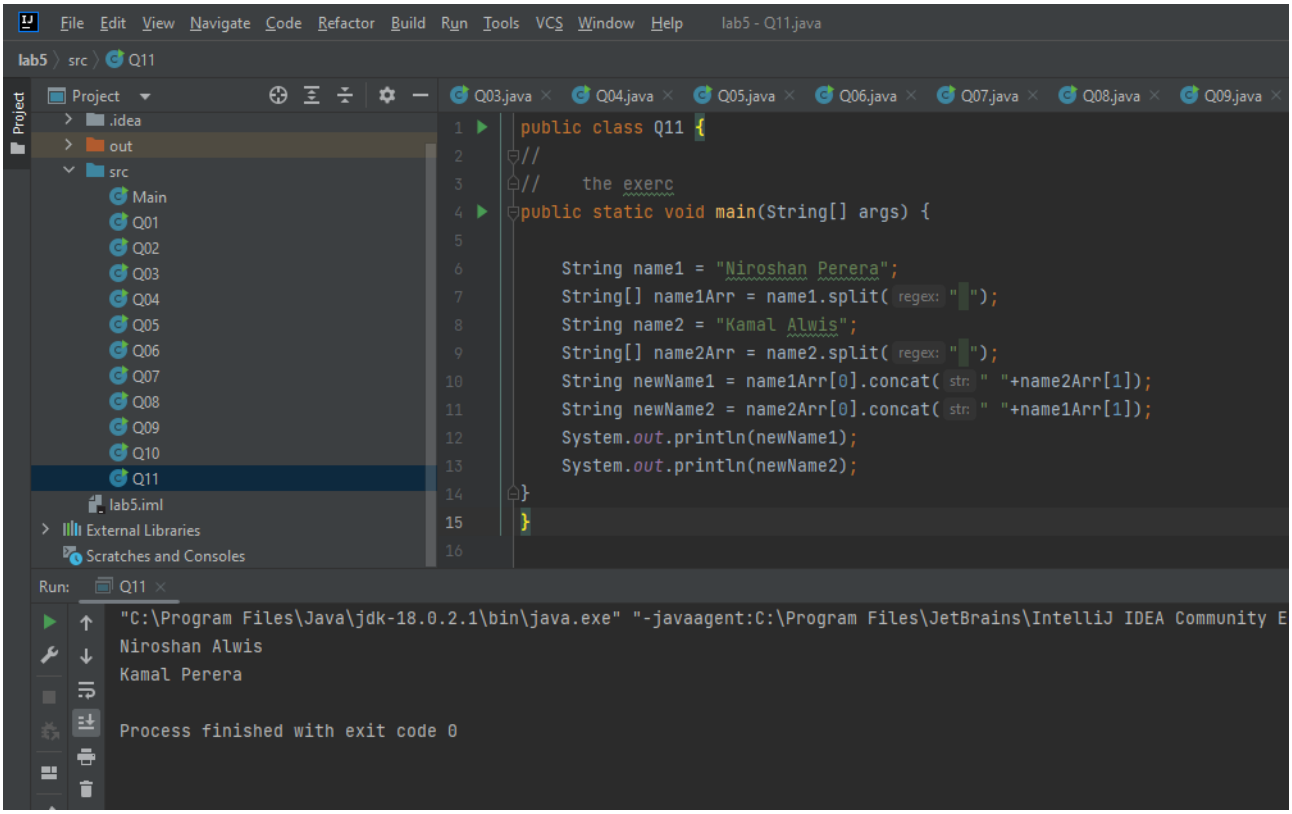


b.




```java
public class Q10 {
    public static void main(String[] args) {

        String string = "ICS 102: Introduction to Computing I";
        String[] parts = string.split(" ");
        System.out.println("Course Name: "+parts[0]);
        System.out.println("Course Number: "+parts[1].substring(0,3));
        StringBuilder courseName = new StringBuilder("");
        for (int i =2; i < parts.length; i++) {
            courseName.append(" "+parts[i]);
        }
        System.out.println("Course Description: "+courseName);
    }
}
```

09. c




```java
public class Q11 {
//
//    the exerc
public static void main(String[] args) {

    String name1 = "Niroshan Perera";
    String[] name1Arr = name1.split(" ");
    String name2 = "Kamal Alwis";
    String[] name2Arr = name2.split(" ");
    String newName1 = name1Arr[0].concat(" "+name2Arr[1]);
    String newName2 = name2Arr[0].concat(" "+name1Arr[1]);
    System.out.println(newName1);
    System.out.println(newName2);
}
}
```