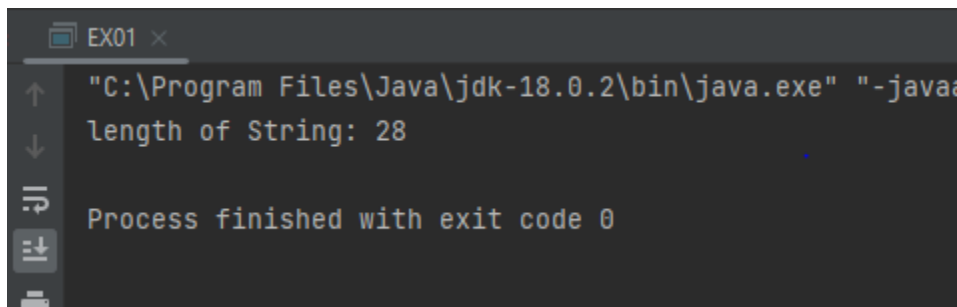


1.

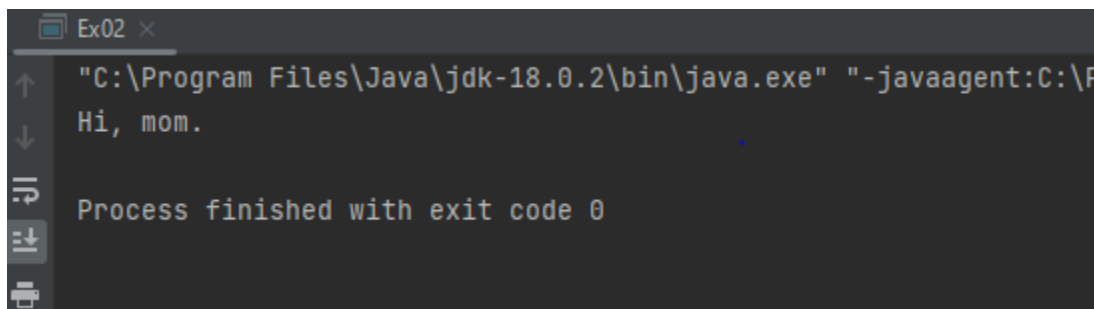
```
public class EX01 {  
    public static void main(String args[] ) {  
        String str = new String("Welcome to Java Programming.");  
        System.out.println("length of String: " + str.length());  
    }  
}
```



```
EX01 x  
↑ "C:\Program Files\Java\jdk-18.0.2\bin\java.exe" -javaa  
↓ length of String: 28  
⌵  
⌵ Process finished with exit code 0  
⌵
```

2.

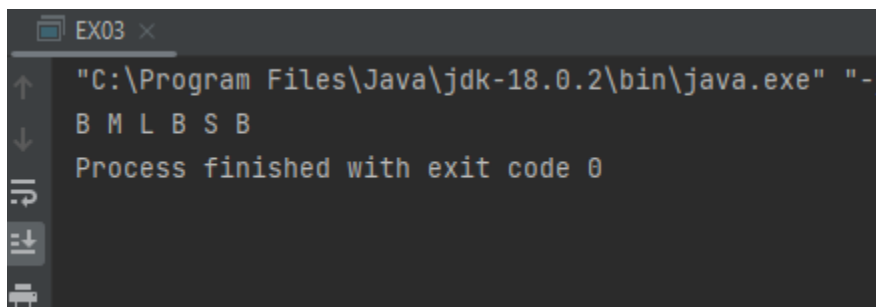
```
public class Ex02 {  
    public static void main(String args[]) {  
        // String str1 = new String("Welcome to Java Programming.");  
        // String str2 = new String("");  
        String hi = "Hi, ";  
        String mom = "mom.";  
  
        System.out.println(hi.concat(mom));  
    }  
}
```



```
Ex02 x  
↑ "C:\Program Files\Java\jdk-18.0.2\bin\java.exe" -javaagent:C:\P  
↓ Hi, mom.  
⌵  
⌵ Process finished with exit code 0  
⌵
```

3.

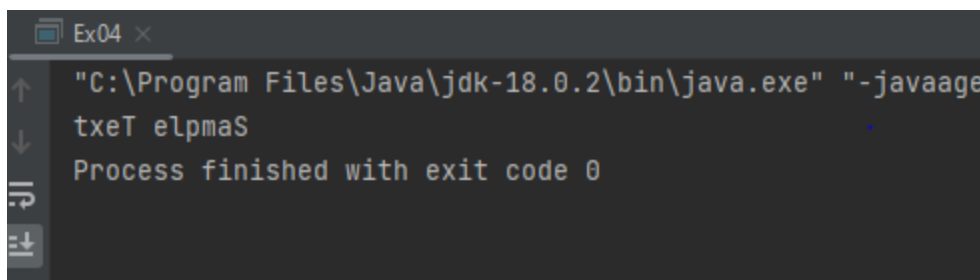
```
public class EX03 {  
    public static void main(String args[]) {  
        String fullName = "Banneheka Mudiyansele Lakindu Banula Sirimewan  
Banneheka";  
        String[] myName = fullName.split(" ");  
        for (int i = 0; i < myName.length; i++) {  
            String s = myName[i];  
            System.out.print(s.charAt(0) + " ");  
        }  
    }  
}
```



```
EX03 x  
↑ "C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-j  
↓ B M L B S B  
Process finished with exit code 0
```

4.

```
public class Ex04 {  
    public static void main(String args[]) {  
        String str = "Sample Text";  
        for (int i = str.length(); i > 0; i--) {  
            System.out.print(str.charAt(i-1));  
        }  
    }  
}
```



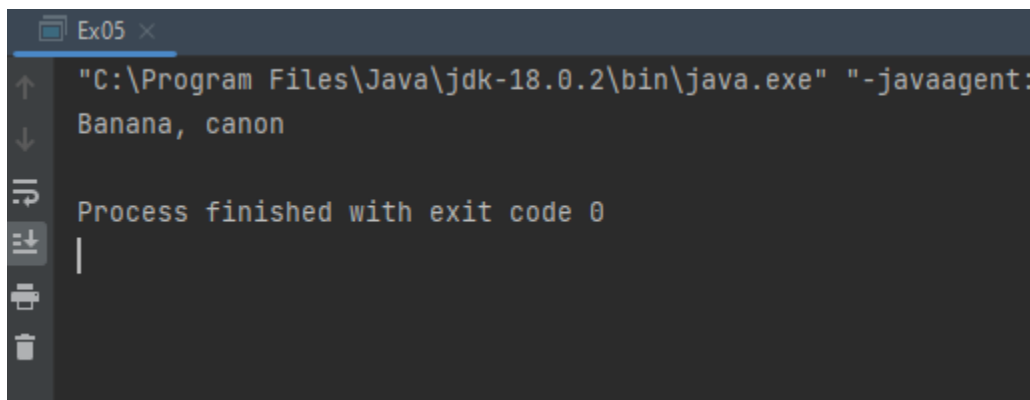
```
Ex04 x  
↑ "C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaage  
↓ txeT elpmaS  
Process finished with exit code 0
```

5.

```

public class Ex05 {
    public static void main(String args[]) {
        String str1 = "Banana";
        String str2 = "Apple";
        System.out.println(str1.compareTo(str2) < 0? str1 + ", " + str2 :
str2 + ", " + str1);
    }
}

```



```

Ex05 x
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:
Banana, canon

Process finished with exit code 0

```

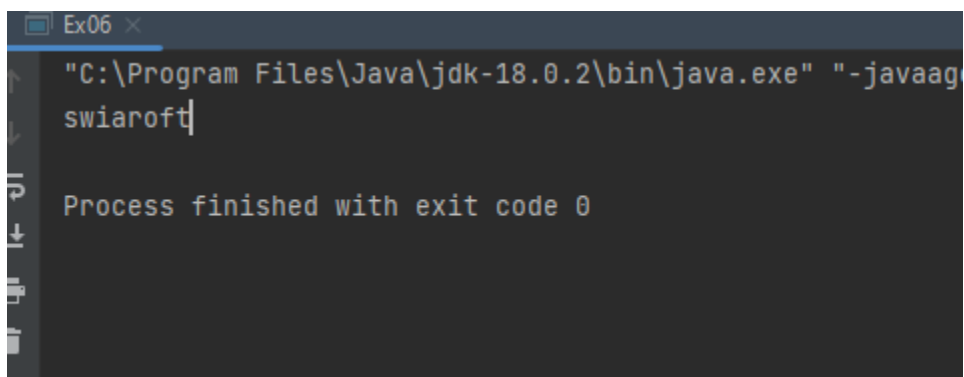
6.

```

public class Ex06 {
    public static void main(String args[]) {
        String original = "software";
        StringBuilder result = new StringBuilder("hi");
        int index = original.indexOf('a');// index = 5
        result.setCharAt(0, original.charAt(0)); // result = si
        result.insert(1, original.charAt(4)); // result = swi
        result.append(original.substring(1, 4)); // result = swioft
        result.insert(3, (original.substring(index, index+2) + "")); //
result = swiaroft
        System.out.println(result);
    }
}

```

result = swiaroft



```

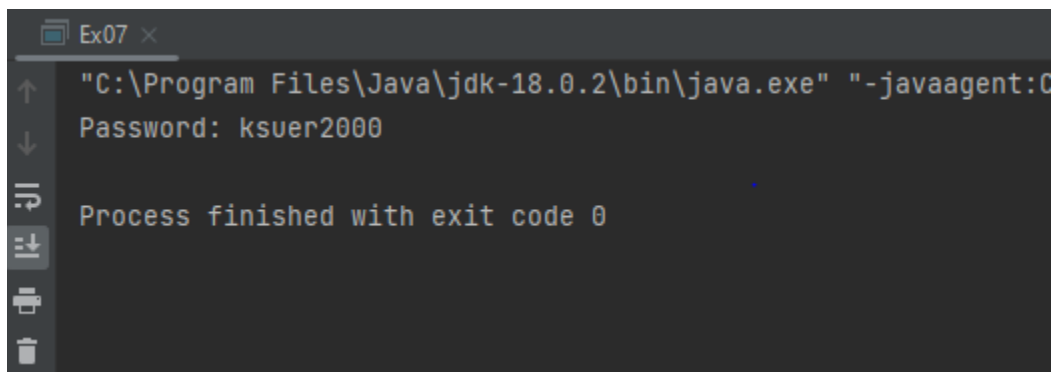
Ex06 x
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaag
swiaroft

Process finished with exit code 0

```

7.

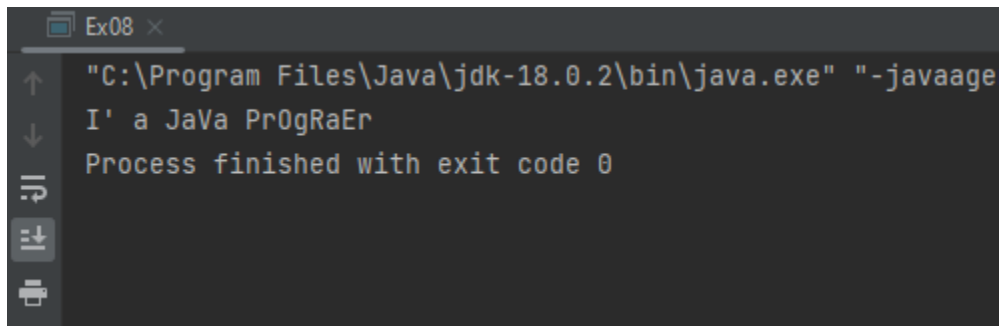
```
public class Ex07 {  
    public static void main(String args[]) {  
        String firstName = "Kamala";  
        String middleName = "Sugarcane";  
        String lastName = "Perera";  
        int age = 20;  
  
        StringBuilder password = new StringBuilder(" ");  
        password.setCharAt(0, firstName.toLowerCase().charAt(0));  
        password.append(middleName.toLowerCase().substring(0, 2));  
        password.append(lastName.toLowerCase().substring(lastName.length()-  
3, lastName.length()-1));  
        password.append(age * 100);  
  
        System.out.println("Password: " + password);  
    }  
}
```



```
Ex07 x  
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:0  
Password: ksuer2000  
  
Process finished with exit code 0
```

8.1.

```
public class Ex08 {  
    public static void main(String[] args) {  
        String str = "I'm a JaVa PrOgRaMmEr";  
        int mCount = 0;  
  
        for(int i = 0; i < str.length(); i++){  
            if(str.charAt(i) == 'm' || str.charAt(i) == 'M') {  
                if (mCount >= 3) {  
                    System.out.print(str.charAt(i));  
                }  
                mCount++;  
            } else {  
                System.out.print(str.charAt(i));  
            }  
        }  
    }  
}
```

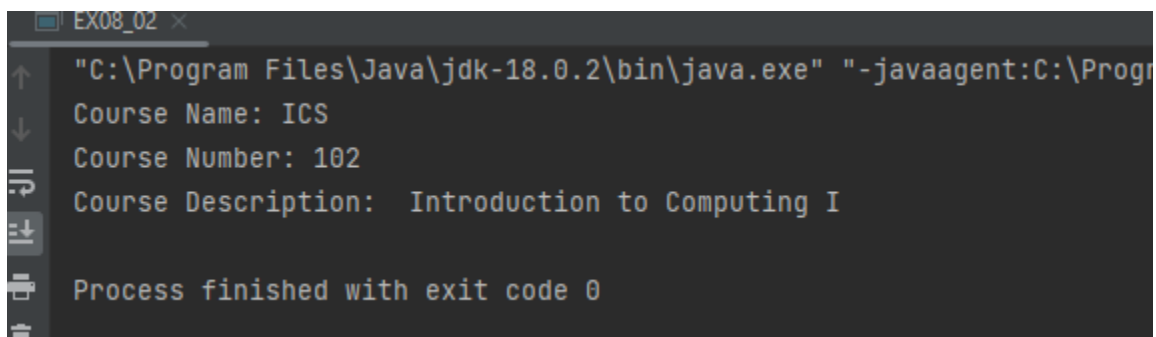


```
Ex08 x
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaage
I' a JaVa PrOgRaEr
Process finished with exit code 0
```

8.2.

```
public class EX08_02 {
    public static void main(String[] args) {
        String str = "ICS 102: Introduction to Computing I";
        String courseName = str.substring(0,3);
        String courseNumber = str.substring(4,7);
        String courseDescription = str.split(":")[1];

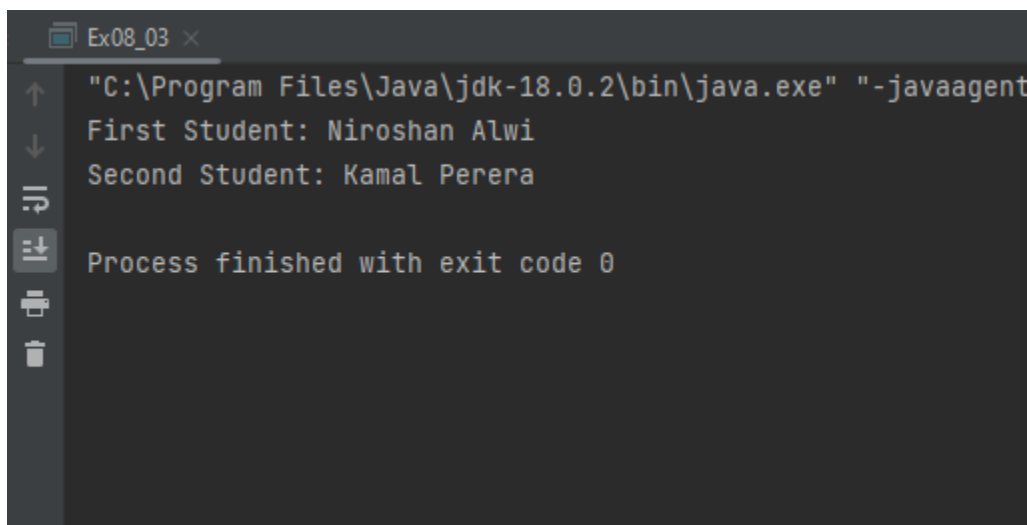
        System.out.println("Course Name: " + courseName);
        System.out.println("Course Number: " + courseNumber);
        System.out.println("Course Description: " + courseDescription);
    }
}
```



```
EX08_02 x
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:C:\Progr
Course Name: ICS
Course Number: 102
Course Description: Introduction to Computing I
Process finished with exit code 0
```

8.3.

```
public class Ex08_03 {  
    public static void main(String[] args){  
        String stu1 = "Niroshan Perera";  
        String stu2 = "Kamal Alwi";  
  
        System.out.println("First Student: " + stu1.split(" ")[0] + " " +  
stu2.split(" ")[1]);  
        System.out.println("Second Student: " + stu2.split(" ")[0] + " " +  
stu1.split(" ")[1]);  
  
    }  
}
```



```
Ex08_03 x  
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent  
First Student: Niroshan Alwi  
Second Student: Kamal Perera  
Process finished with exit code 0
```

9.

```
public class Ex09 {  
    public static void main(String[] args) {  
        int[] Num = {40,28,10,81,23,45,47,18,76,64};  
        int sum = 0;  
  
        for(int i = 0; i < Num.length; i++){  
            System.out.print(Num[i] + ", ");  
            sum += Num[i];  
        }  
  
        System.out.println("Using For each: ");  
        for (int number: Num) {  
            System.out.print(number + ", ");  
        }  
        System.out.println("\nSum: " + sum);  
    }  
}
```

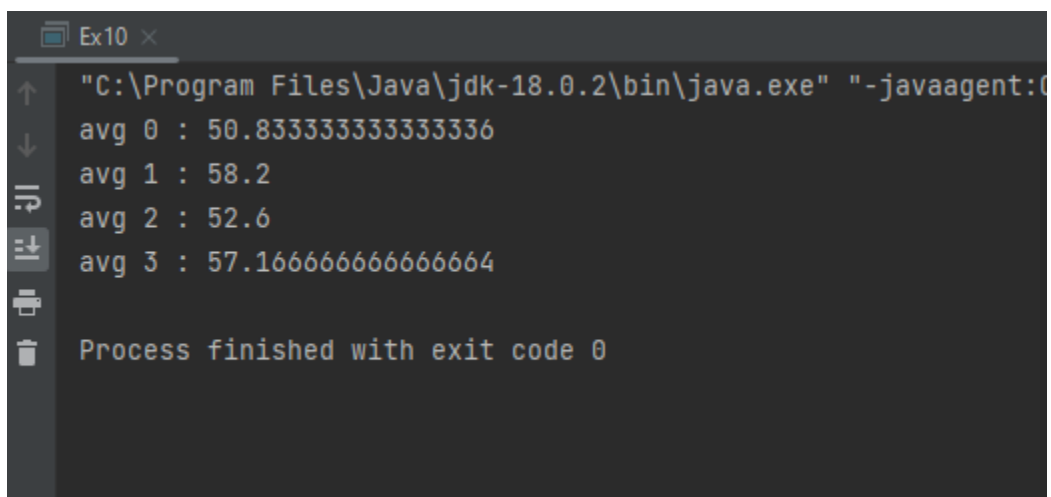
```
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:C:\Pr
40, 28, 10, 81, 23, 45, 47, 18, 76, 64, Using For each:
40, 28, 10, 81, 23, 45, 47, 18, 76, 64,
Sum: 432

Process finished with exit code 0
```

10.

```
public class Ex10 {
    public static void main(String[] args) {
        double [][] weights = {{54.5, 50, 48}, {43, 56.5, 67, 65.5, 59}, {45,
55, 63, 45.5, 54.5}, {66, 49.5,
56}};
        double sum = 0;

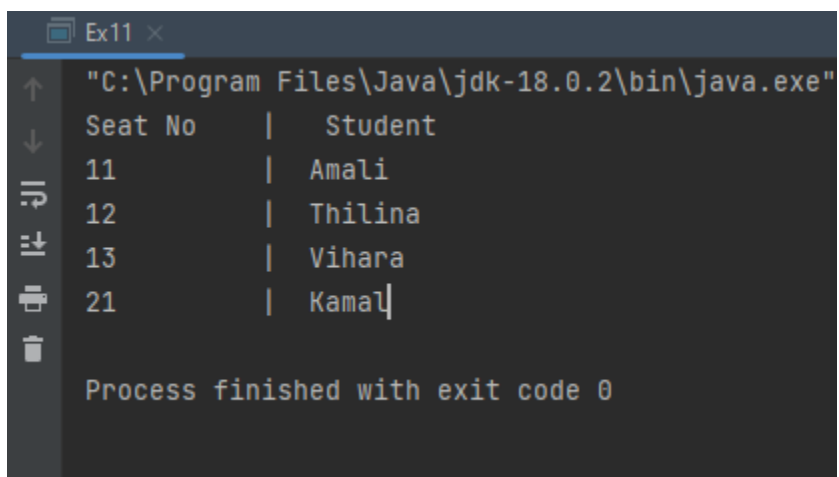
        for(int i = 0; i < 4; i++){
            for(int j = 0; j < weights[i].length; j++) {
                sum += weights[i][j];
            }
            System.out.println("avg " + i + " : " + sum/weights[i].length);
            sum = 0;
        }
    }
}
```



```
Ex10 x
"C:\Program Files\Java\jdk-18.0.2\bin\java.exe" "-javaagent:C
avg 0 : 50.833333333333336
avg 1 : 58.2
avg 2 : 52.6
avg 3 : 57.166666666666664
Process finished with exit code 0
```

11.

```
public class Ex11 {  
    public static void main(String[] args) {  
        String[][] names = {"Amali", "Thilina", "Vihara"}, {"Kamal"}, {};  
        System.out.println("Seat No    |    Student");  
        for(int i = 0; i < names.length; i++){  
            for(int j = 0; j < names[i].length; j++) {  
                System.out.println((i+1)+" "+(j+1)+"    |    "+  
names[i][j]);  
            }  
        }  
    }  
}
```



```
Ex11 x  
↑ "C:\Program Files\Java\jdk-18.0.2\bin\java.exe"  
↓ Seat No    |    Student  
11  |    Amali  
12  |    Thilina  
13  |    Vihara  
21  |    Kamal  
Process finished with exit code 0
```