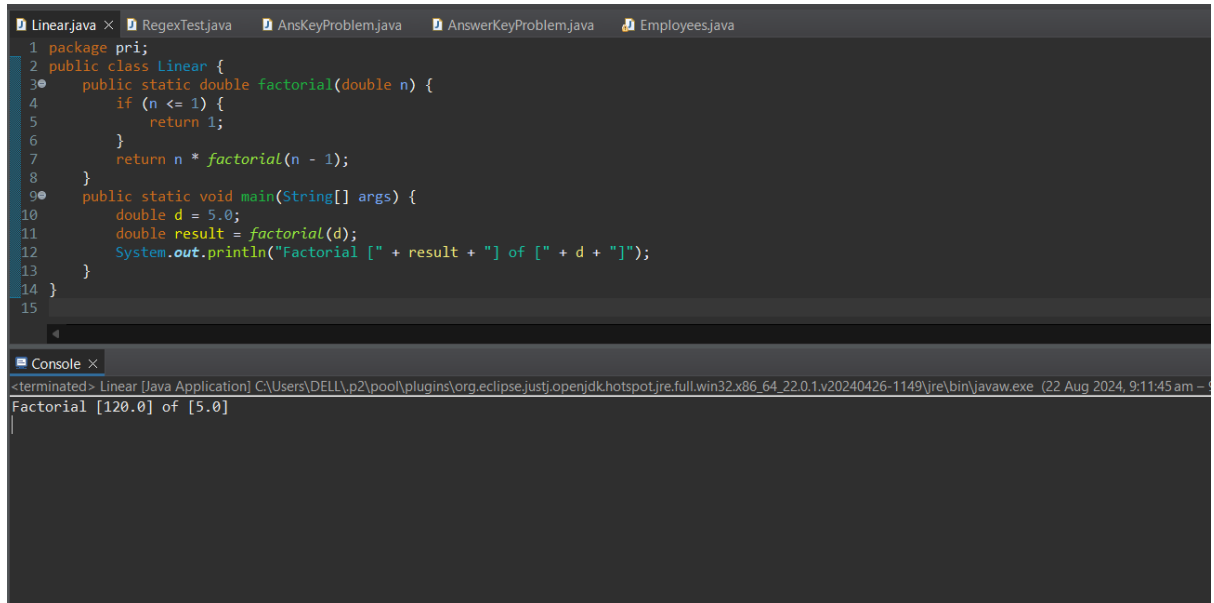


1.



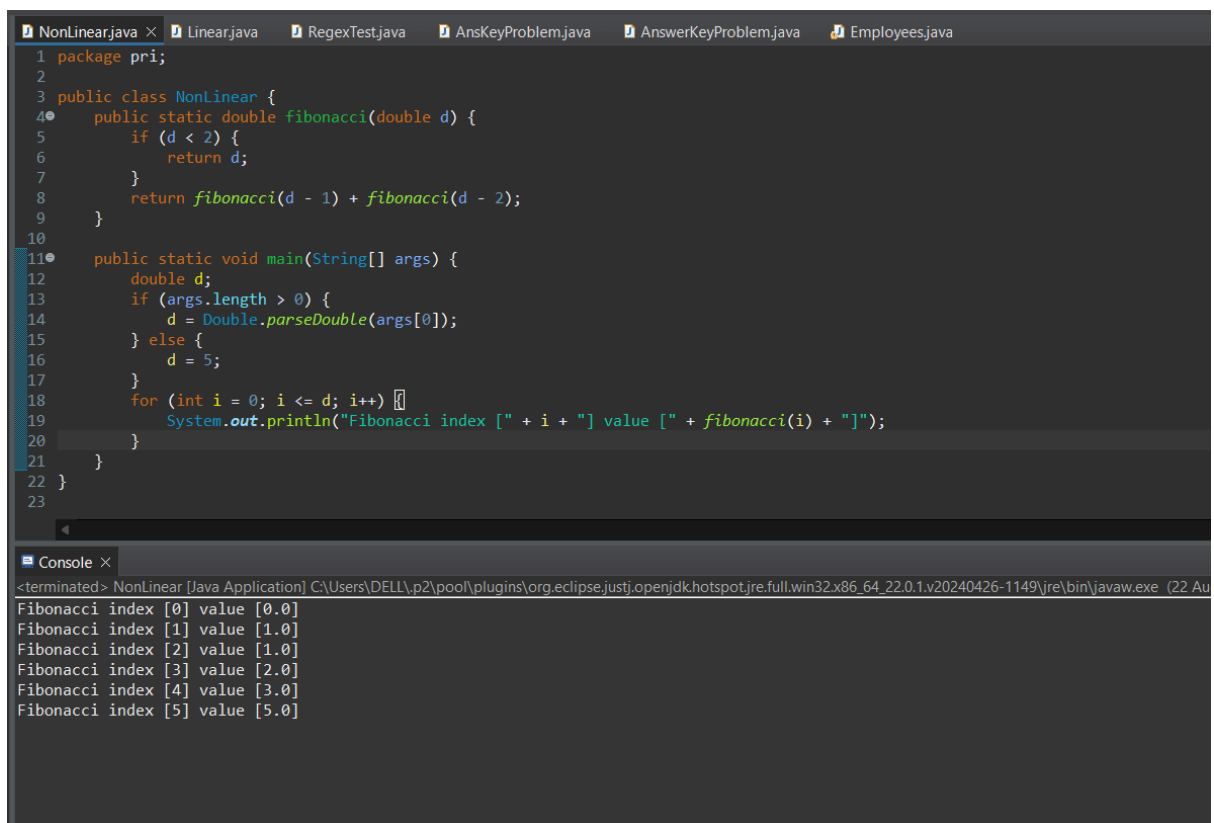
The screenshot shows an IDE with several tabs: Linear.java, RegexTest.java, AnsKeyProblem.java, AnswerKeyProblem.java, and Employees.java. The Linear.java tab is active, displaying the following code:

```
1 package pri;
2 public class Linear {
3     public static double factorial(double n) {
4         if (n <= 1) {
5             return 1;
6         }
7         return n * factorial(n - 1);
8     }
9     public static void main(String[] args) {
10        double d = 5.0;
11        double result = factorial(d);
12        System.out.println("Factorial [" + result + "] of [" + d + "]");
13    }
14 }
15
```

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

```
<terminated> Linear [Java Application] C:\Users\DELL\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-1149\jre\bin\javaw.exe (22 Aug 2024, 9:11:45 am - 5
Factorial [120.0] of [5.0]
```

2.



The screenshot shows an IDE with several tabs: NonLinear.java, Linear.java, RegexTest.java, AnsKeyProblem.java, AnswerKeyProblem.java, and Employees.java. The NonLinear.java tab is active, displaying the following code:

```
1 package pri;
2
3 public class NonLinear {
4     public static double fibonacci(double d) {
5         if (d < 2) {
6             return d;
7         }
8         return fibonacci(d - 1) + fibonacci(d - 2);
9     }
10
11    public static void main(String[] args) {
12        double d;
13        if (args.length > 0) {
14            d = Double.parseDouble(args[0]);
15        } else {
16            d = 5;
17        }
18        for (int i = 0; i <= d; i++) {
19            System.out.println("Fibonacci index [" + i + "] value [" + fibonacci(i) + "]");
20        }
21    }
22 }
23
```

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

```
<terminated> NonLinear [Java Application] C:\Users\DELL\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-1149\jre\bin\javaw.exe (22 Au
Fibonacci index [0] value [0.0]
Fibonacci index [1] value [1.0]
Fibonacci index [2] value [1.0]
Fibonacci index [3] value [2.0]
Fibonacci index [4] value [3.0]
Fibonacci index [5] value [5.0]
```