1)

```
■ *Main.java × ■ LESGO.java
                           🗾 sample.java
 1 //k Phani 192311091
 2 package application;
 4 public class Main {
 50
            if (n <= 1) {
            }
            return n * factorial(n - 1);
        }
        public static void main(String[] args) {
13●
            double d = 5.0;
            double result = factorial(d);
16
            System.out.println("Factorial:" + result);
       }
```

Factorial of 120.0

2)

```
Fibonacci index [0.0] value [0.0.0]
Fibonacci index [1.0] value [1.0.0]
Fibonacci index [2.0] value [1.0.0]
Fibonacci index [3.0] value [2.0.0]
Fibonacci index [4.0] value [3.0.0]
Fibonacci index [5.0] value [5.0.0]
```

3)

<terminated> iviain (Java Application) c.\Program riles\Java\juk-22\bin\ji

```
factorial(1.0) = 1
factorial(2.0) = 2.0 * factorial(1.0) = 2.0
factorial(3.0) = 3.0 * factorial(2.0) = 6.0
factorial(4.0) = 4.0 * factorial(3.0) = 24.0
factorial(5.0) = 5.0 * factorial(4.0) = 120.0
factorial(6.0) = 6.0 * factorial(5.0) = 720.0
factorial(7.0) = 7.0 * factorial(6.0) = 5040.0
The factorial of 7.0 is: 5040.0
```