Java Notebook.

Fibonacci $\rightarrow$ 1, 1, 2, 3, 5, 8, 13, ... nth.

```java
public class Fibonacci {
    public static void main (String [] args) {
        int n = 10;
        int a = 0, b = 1, sum;
        for (int i = 0; i < n; i++) {
            System.out.print (a + " , ");
            sum = a + b;
            a = b;
            b = sum;
        }                               // end of for loop
    }                               // End of main
}                               // End of class definition.
```

3) Pattern :
$$1$$
$$1^2 - 2$$
$$1^3 - 3$$
$$1^4 - 4 \ldots$$

```java
public class Pattern {
    public static void main (String[] args) {
        System.out.println("1");
        for (int i = 2; i <= 10; i++) {
            System.out.println(1-i);
        }
    }                 // End of main method
}                     // End of class definition.
```

2) Pattern :

```
1               1
1-2             2 2
1-3             3 3 3
1-4 ...         4 4 4 4 ...
```

```java
public class Pattern {
    public static void main (String [] args) {
        int i = 0, n = 10;
        for (i = 1; i <= n; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.print (i + "\t");
            }
            System.out.println();
        }
    }
}
```