Practical 1.

1.

```java
package com.mycompany.test;
public class Test {

    public static void main(String[] args) {
        System.out.println( x: "Hello World!");
    }
}
```

2.

3.

```java
package com.mycompany.test;
public class Test {

    public static void main(String[] args) {
        int i = 0;

        while(i<5){
            System.out.println("Executing Loop "+i);
            i++;
        }
    }
}
```

4.

```
-------------------------< com.mycompany:Test >-------------------------
Building Test 1.0-SNAPSHOT
--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ Test ---
10


20


I'm out of the Loop now
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
```

```
-------------------------< com.mycompany:Test >-------------------------
Building Test 1.0-SNAPSHOT
--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ Test ---
10


20


40


50


I'm out of the Loop now
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
```

5.

Start Page | Test.java

Source | History

```
package com.mycompany.test;
public class Test {

    public static void main(String[] args) {
        char grade='A';
        switch(grade){
            case'A':System.out.println( x: "Excellent");break;
            case'D':System.out.println( x: "Better try again");break;
            default:System.out.println( x: "Invalid grade");
        }
        System.out.println("Your grade is "+grade);
    }
    }
```

```
-------------------------< com.mycompany:Test >-------------------------
Building Test 1.0-SNAPSHOT
--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ Test ---
Excellent
Your grade is A
------------------------------------------------------------------------
BUILD SUCCESS
```

```
------------------------< com.mycompany:Test >------------------------
Building Test 1.0-SNAPSHOT
--------------------------------[ jar ]---------------------------------

--- exec-maven-plugin:3.0.0:exec (default-cli) @ Test ---
Excellent
Better try again
Your grade is A
------------------------------------------------------------------------
BUILD SUCCESS
------------------------------------------------------------------------
```

If-Else statement

```
Start Page  Test.java
Source  History
1   package com.mycompany.test;
2   public class Test {
3
4       public static void main(String[] args) {
5           char grade='A';{
6           if(grade=='A')
7               System.out.println( x: "Excellent");
8           else if(grade=='D')
9               System.out.println( x: "You passed");
10          else if(grade=='F')
11              System.out.println( x: "Better try again");
12          else
13              System.out.println( x: "Invalid grade");
14      }
15          System.out.println("Your grade is "+grade);
16      }
17  }
```

6.

```
1   package com.mycompany.test;
2   public class Test {
3
4       public static void main(String[] args) {
5           int[] numbers={10,20,30,40,50};
6           for(int x:numbers){
7               System.out.print( i: x);
8               System.out.println( x: ",");
9           }
10          System.out.println( x: "\n");
11          String[] names = {"James","Larry","Tom","Lacy"};
12                  for(String name :names){
13                      System.out.print( s: name);
14                      System.out.println( x: ",");
15                  }
16      }
17  }
```

```
] Building Test 1.0-SNAPSHOT
  --------------------------------[ jar ]---------------------

] --- exec-maven-plugin:3.0.0:exec (default-cli) @ Test ---
  10,
  20,
  30,
  40,
  50,


  James,
  Larry,
  Tom,
- Lacy,
  ------------------------------------------------------------------------
  BUILD SUCCESS
  ------------------------------------------------------------------------
```