LAB 12: SECURE CODING INPUT VALIDATION BY java

Class: M02

Name: Tran Dang Khoa

ID Student: B2014926

A in java

- 1 Execut following first secure coding, exercise as far as you can
- 1 Process designing
- 2 Coding
- 3 Executing

<u>os</u>	
<u>IDE</u>	Terminal
language	<u>Java 11</u>
Type of DB	
Type of File	
Other software	

2

- 3 [Process designing]
- 1 Configure the Complete Build Process
- 1 How to install/set up IDE for java, How to install/call java under IDE

```
khoab2014926@khoab2014926-VirtualBox:~$ java -version
openjdk version "1.8.0_382"
OpenJDK Runtime Environment (build 1.8.0_382-8u382-ga-1~22.04.1-b05)
OpenJDK 64-Bit Server VM (build 25.382-b05, mixed mode)
khoab2014926@khoab2014926-VirtualBox:~$
```

2 Search coding model *java* program,

https://kodejava.org/how-do-i-validate-input-when-using-scanner/

3 How to compile java program

https://www.tutorialspoint.com/How-to-compile-a-java-program

- 4 How to connect & interface input validation java module to main program
- 5 Explain the input validation program logic
 - Get the input from user
 - Check the input is integer or not
 - If not continue check the input is float or not
 - If not integer or float. The input is string
- 6 How to run the program

[Coding]

```
(F)
       khoab2014926@khoab2014926-VirtualBox: ~
                                                             GNU nano 6.2
                      ScannerValidateInput.java *
import java.util.Scanner;
public class ScannerValidateInput {
    public static void main(String[] args) {
        ScannerValidateInput demo = new ScannerValidateInput();
        demo.validatePositiveNumber();
    }
    private void validatePositiveNumber() {
        Scanner scanner = new Scanner(System.in);
        int number:
        do {
            System.out.print("Please enter a positive number:
                  (!scanner.hasNextInt()) {
                String input = scanner.next();
                                           is not a valid number.>
                System.out.printf("\"%s\"
            number = scanner.nextInt();
        } while (number < 0);</pre>
        System.out.printf("You have entered a positive number
    }
```

[Executing]

- Compile Main.java to ScannerValidateInput file to execute
- Run after compiling successfully and check the result

```
khoab2014926@khoab2014926-VirtualBox:~$ java ScannerValidateInput.java
Please enter a positive number: Tran Dang Khoa
"Tran" is not a valid number.
"Dang" is not a valid number.
"Khoa" is not a valid number.
-100
Please enter a positive number: 99
You have entered a positive number 99.
khoab2014926@khoab2014926-VirtualBox:~$
```