Lab 3

Variable and Calculation

Name-Surname………………………………......Student No.......................................Section (LAB)……………

Lab instruction

1. Open VS code or JAVA IDE in your computer.

2. Create a new java class name Regtangle.java, then write the following code.

```java
import java.util.Scanner;
    //----------Lab 3
    //----------(Student name and Id.)
    //This program for calculate the area of regtangle
public class Rectangle {
    public static void main(String[] args) {
        int length;
        int width;
        int area;
        Scanner input = new Scanner(System.in);
        System.out.print("Enter length:");
        length = input.nextInt();
        System.out.print("Enter width:");
        width = input.nextInt();
        area = length*width;
        System.out.println("The area of regtangle is "+area);
    }
}
```

3. Save and Run the code. If you input length =5 and width = 10 , the program will given the result area = 50.

4. Edit the code to recrive the floating point number. Example length = 5.5 ,width = 10.1 the program will given result area = 55.55

Checkpoint 1 For teacher or TA

☐ Run "Regtangle" Program.

5. Converting the US dollar to Thai Bath. The currency exchange rate is 1 US dollar for 31.8245 Thai Bath. Write the program that promts the user to enter the US dollars and displays the Thai Bath.

> **Checkpoint 2 For teacher or TA**
> ☐ Run "ConvertMoney" Program.

6. Computing the volume of a cylinder. Write a program that reads the radius and length of a cylinder and computes volume using the following formulars. π = 3.1428

area = radius * radius * π

volume = area * length

> **Checkpoint 3 For teacher or TA**
> ☐ Run "Cylinder" Program.

7. Time Calculator. Write a program that read number of second(Time) and calculate the result in number of day, hour, min, and second. *hint 1 day =   86,400 second, 1 hour = 3,600 second, 1 minute = 60 second.

> **Checkpoint 4 For teacher or TA**
> ☐ Run "Time calculator" Program.

---End of Lab---