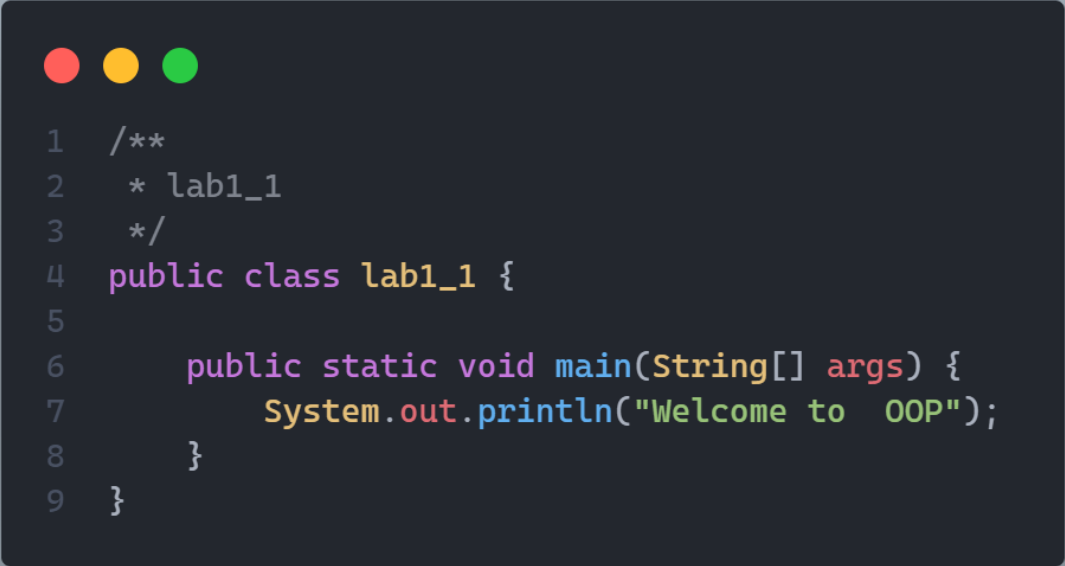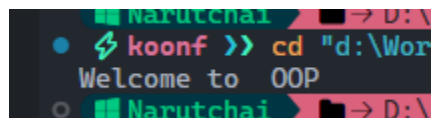65090500440 นรุตม์ชัย หมื่นแสน

```
1   /**
2    * lab1_1
3    */
4   public class lab1_1 {
5
6       public static void main(String[] args) {
7           System.out.println("Welcome to  OOP");
8       }
9   }
```

```
 Narutchai       → D:\
 ⚡ koonf >> cd "d:\Wor
  Welcome to  OOP
 Narutchai       → D:\
```

```java
public class lab1_2 {
    public static void main(String[] args) {
        System.out.println("Default value of short is " + Short.MIN_VALUE);
        System.out.println("Default value of int is " + Integer.MIN_VALUE);
        System.out.println("Default value of long is " + Long.MIN_VALUE);
        System.out.println("Default value of float is " + Float.MIN_VALUE);
        System.out.println("Default value of double is " + Double.MIN_VALUE);
        System.out.println("Default value of char is " + Character.MIN_VALUE);
        System.out.println("Default value of String is " + String.valueOf(""));
        System.out.println("Default value of Boolean is " + Boolean.FALSE);
    }
}
```

```
Narutchai → D:\Work\Comscipath\ACS2semeter1\CSS2
koonf >> cd "d:\Work\Comscipath\ACS2semeter1\CSS222C
Default value of short is -32768
Default value of int is -2147483648
Default value of long is -9223372036854775808
Default value of float is 1.4E-45
Default value of double is 4.9E-324
Default value of char is
Default value of String is
Default value of Boolean is false
```

```java
public class lab1_3 {
    public static void main(String[] args) {
        String str1 = "OOP";
        String str2 = "Object-Oriented Programming";

        if (str1.equals(str2)) {
            System.out.println("str1 and str2 are equal");
        } else {
            System.out.println("str1 and str2 are not equal");
        }
    }
}
```

```
 koonf >> cd "d:\Work\Comscipat
str1 and str2 are not equal
```

```java
public class lab1_1 {
    public static void main(String[] args) {
        int x = 0 ;
        int a = 10 ;
        int b = 20 ;

        System.out.println(+x);
        System.out.println(++x);
        System.out.println(x++);


        System.out.println(a+b);
        System.out.println(a-b);
        System.out.println(a*b);
        System.out.println(a/b);
        System.out.println(a%b);

        System.out.println(a<b);
        System.out.println(a>b);
        System.out.println(a<=b);
        System.out.println(a>=b);
        System.out.println(a==b);
        System.out.println(a!=b);
    }
}
```

```
  koonf >> cd "d:\Work\Comscipath\ACS2seme
0
1
1
30
-10
200
0
10
true
false
true
false
false
true
```

```java
/**
 * Lab1_2
 */
public class Lab1_2 {

    public static void main(String[] args) {
        int x = 5;
        int y = 10;
        if (x > y) {
            System.out.println(x + " is greater than " + y);
        } else {
            System.out.println(x + " is less than " + y);
        }
        char grade = 'A';

        switch (grade) {
            case 'A':
                System.out.println("Excellent!");
                break;
            case 'B':
                System.out.println("Good!");
                break;
            case 'C':
                System.out.println("Well done!");
                break;
            case 'D':
                System.out.println("You passed!");
                break;
            case 'F':
                System.out.println("Better try again!");
                break;
            default:
                System.out.println("Invalid grade!");
        }

        int a = 10;
        for (int i = 0; i < a; i++) {
            System.out.println("i = " + i);
        }
        int b = 0;
        while (b <= 5) {
            System.out.println("b = " + b);
            b++;
        }
        do {
            System.out.println("b = " + b);
            b++;
        } while (b <= 5);
    }

}
```

```
● ⚡ koonf >> cd "d:\Work\Comscipath\ACS2
5 is less than 10
Excellent!
i = 0
i = 1
i = 2
i = 3
i = 4
i = 5
i = 6
i = 7
i = 8
i = 9
b = 0
b = 1
b = 2
b = 3
b = 4
b = 5
b = 6
```

```java
import java.util.Arrays;

public class lab1_3 {
    public static void main(String[] args) {
        int a1[] = new int[10];
        int a2[] = { 3, 5, 7, 1, 8, 99, 44, -10 };
        int a3[] = { 4, 3, 2, 1 };

        System.out.println("Length of a1 is " + a1.length);
        System.out.println("Length of a2 is " + a2.length);
        System.out.println("Length of a3 is " + a3.length);

        int a4[][] = { { 0, 1, 2 }, { 3, 4, 5 }, { 6, 7, 8 } };

        for (int i = 0; i < a4.length; i++) {
            for (int j = 0; j < a4[i].length; j++) {
                System.out.print(a4[i][j] + " ");
            }
            System.out.println();
        }

        int arr[] = { 234, 6, 846, 85, 96, 198, 545, 12, 60, 34, 4, 87, 7, 1 };
        Arrays.sort(arr);

        System.out.println("Sorted array is: ");
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }


    }

}
```

```
Narutchai     → D:\Work\Comscipath\ACS2semeter1\CSS
 koonf >> cd "d:\Work\Comscipath\ACS2semeter1\CSS222
Length of a1 is 10
Length of a2 is 8
Length of a3 is 4
0 1 2
3 4 5
6 7 8
Sorted array is:
1 4 6 7 12 34 60 85 87 96 198 234 545 846
```

```java
import java.util.Scanner;

public class convertTem {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter a degree in  Celsius Fahrenheit: ");
        double celsius = input.nextDouble();
        double fahrenheit = (9.0 / 5) * celsius + 32;
        System.out.println(celsius + " Celsius is " + fahrenheit + " Fahrenheit");


    }
}
```

```
Narutchai          → D:\Work\Comscipath\ACS2seme
koonf >> cd "d:\Work\Comscipath\ACS2semeter
Enter a degree in  Celsius Fahrenheit: 32
32.0 Celsius is 89.6 Fahrenheit
```