Exercise 1: Input/Output
Write a program that prompts the user to enter their name and age. Then, print a message including their name and age

```java
import java.util.Scanner;
public class lab3 {
    Run | Debug
    public static void main(String args[]){
        int age;
        String name;
        System.out.println(x:"Enter you name and age");
        Scanner in = new Scanner(System.in);
        name = in.next();
        age = in.nextInt();
        System.out.println("Your name is: " + name + " And your age is: " + age);
        in.close();
    }
}
```

ROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
oshans-MacBook-Pro:javaprograms roshanthapa$ cd "/Users/roshanthapa/Desktop/javaprograms/" && javac lab3.java && java lab3
nter you name and age
oshan
0
our name is: Roshan And your age is: 20
oshans-MacBook-Pro:javaprograms roshanthapa$ 
```

Exercise 2: Conditional Statements
Write a program that takes a number as input and determines if it's positive, negative, or zero.

java

```java
import java.util.Scanner;
public class lab3 {
    Run | Debug
    public static void main(String args[]){
        int num;
        Scanner in = new Scanner(System.in);
        System.out.println(x:"Enter any number");
        num = in.nextInt();
        if(num==0){
            System.out.println(x:"Then number is zero. ");
        }
        else if(num>0){
            System.out.println(x:"The number is positive.");
        }
        else{
            System.out.println(x:"Then number is negative.2");
        }
    }
}
```

PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
oshans-MacBook-Pro:javaprograms roshanthapa$ cd "/Users/roshanthapa/Desktop/j
nter any number

ne number is positive.
oshans-MacBook-Pro:javaprograms roshanthapa$ 
```

Exercise 3: Loops
Write a program to print the first N natural numbers using a while loop.

```java
import java.util.Scanner;
public class lab3 {
    Run | Debug
    public static void main(String args[]){
        int num;
        Scanner in = new Scanner(System.in);
        System.out.println(x:"Enter any number");
        num = in.nextInt();
        int i=16;
        while(num!=0){
            System.out.println(i);
            i++;
            num-=1;
        }
    }
}
```

PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
roshans-MacBook-Pro:javaprograms roshanthapa$ cd "/Users/roshant
Enter any number
6
1
2
3
4
5
6
roshans-MacBook-Pro:javaprograms roshanthapa$
```

Exercise 4: Array

Write a program that finds the maximum and minimum elements in an array of integers.

```java
import java.util.Arrays;
public class lab3 {
    Run | Debug
    public static void main(String args[]){
        int array[] = {1,2,3,4,5,-1};
        Arrays.sort(array);
        System.out.println("minimum is: " + array[0] + " And maximum is: " + array[array.length-1] );
    }
}
```

PROBLEMS 3   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

● roshans-MacBook-Pro:javaprograms roshanthapa$ cd "/Users/roshanthapa/Desktop/javaprograms/" && javac lab3.java && java lab3
  minimum is: -1 And maximum is: 5
○ roshans-MacBook-Pro:javaprograms roshanthapa$