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PBO

1.

```
import javax.swing.JOptionPane;

class Students {
    private int NPM;

    public int getNPM() {
        return NPM;
    }

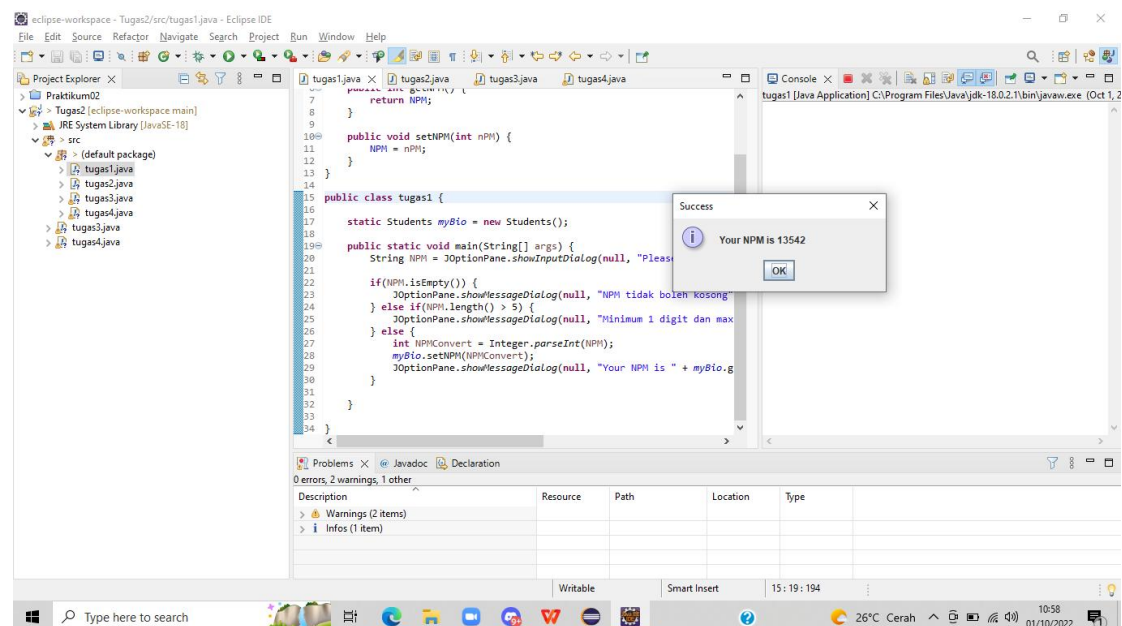
    public void setNPM(int nPM) {
        NPM = nPM;
    }
}

public class tugas1 {

    static Students myBio = new Students();

    public static void main(String[] args) {
        String NPM = JOptionPane.showInputDialog(null, "Please insert your NPM: ");

        if(NPM.isEmpty()) {
            JOptionPane.showMessageDialog(null, "NPM tidak boleh kosong", "Error Message",
JOptionPane.ERROR_MESSAGE);
        } else if(NPM.length() > 5) {
            JOptionPane.showMessageDialog(null, "Minimum 1 digit dan maximum 5 digit", "Error
Message", JOptionPane.WARNING_MESSAGE);
        } else {
            int NPMConvert = Integer.parseInt(NPM);
            myBio.setNPM(NPMConvert);
            JOptionPane.showMessageDialog(null, "Your NPM is " + myBio.getNPM(), "Success",
JOptionPane.INFORMATION_MESSAGE);
        }
    }
}
```



2.

```
import java.util.*;

public class tugas2 {

    static long faktorial(int n){

        long z =1;
        int i = 1;

        while(i <= n){
            z=z*i;
            i++;
        }
        return z;
    }

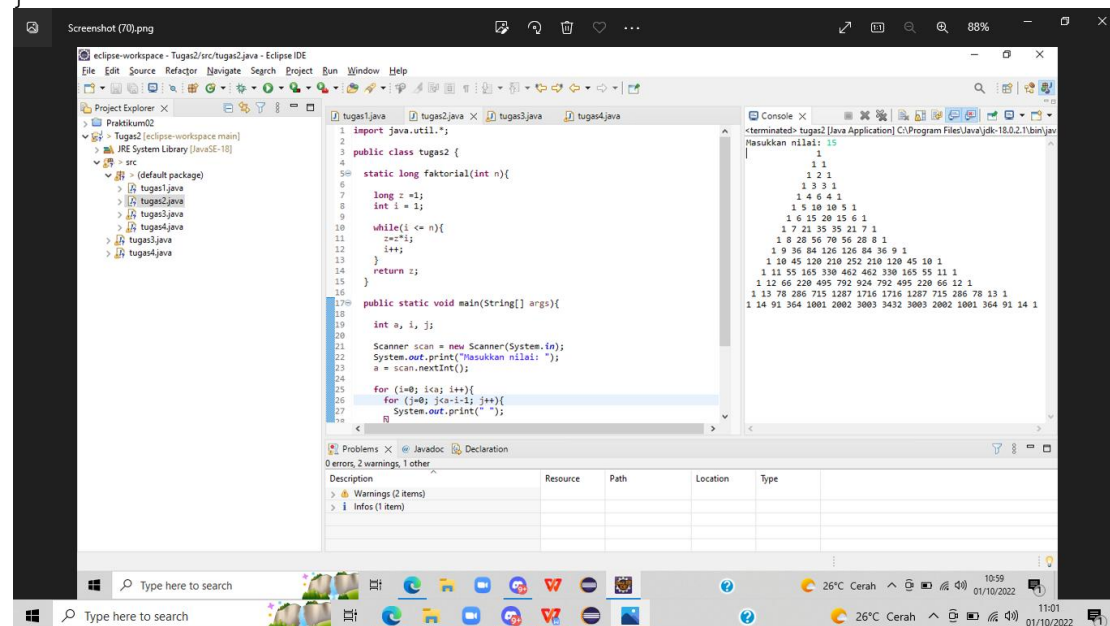
    public static void main(String[] args){

        int a, i, j;

        Scanner scan = new Scanner(System.in);
        System.out.print("Masukkan nilai: ");
        a = scan.nextInt();

        for (i=0; i<a; i++){
            for (j=0; j<a-i-1; j++){
                System.out.print(" ");
            }

            for (j=0; j<=i; j++){
                System.out.print(faktorial(i)/(faktorial(j)*faktorial(i-j))+ " ");
            }
            System.out.println();
        }
    }
}
```



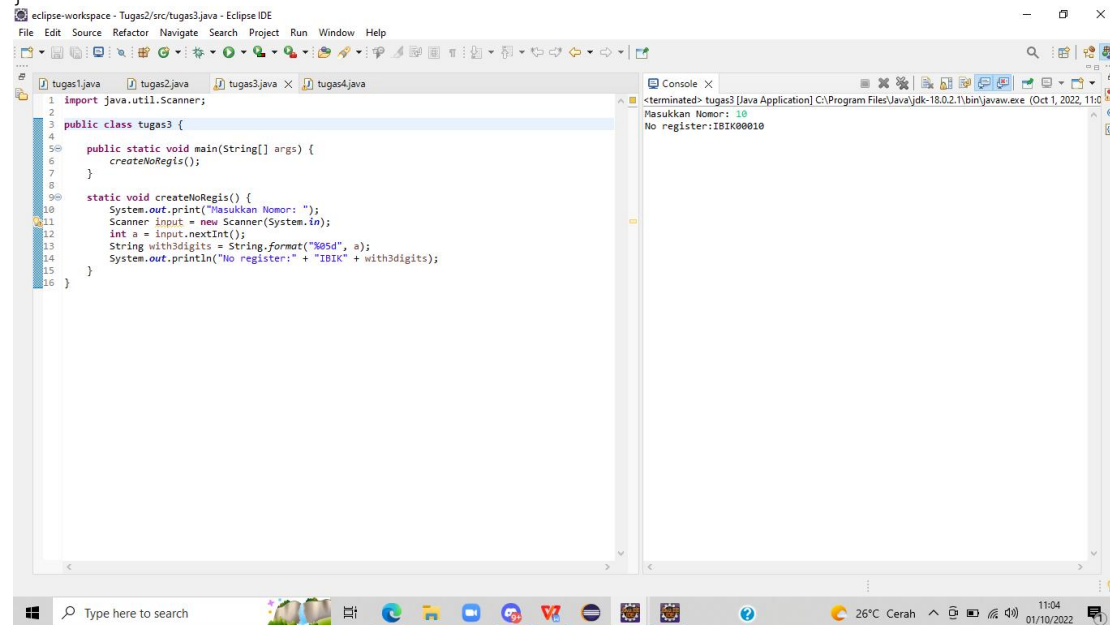
3.

```
import java.util.Scanner;

public class tugas3 {

    public static void main(String[] args) {
        createNoRegis();
    }

    static void createNoRegis() {
        System.out.print("Masukkan Nomor: ");
        Scanner input = new Scanner(System.in);
        int a = input.nextInt();
        String with3digits = String.format("%05d", a);
        System.out.println("No register:" + "IBIK" + with3digits);
    }
}
```



4.

```
import java.util.Scanner;
import javax.swing.JOptionPane;

public class tugas4 {

    static JOptionPane jop = new JOptionPane();

    public static void main(String[] args) {
        createNoRegis();
    }

    static void createNoRegis() {
        System.out.print("Masukkan Nomor: ");
        Scanner input = new Scanner(System.in);
        Integer a = input.nextInt();

        if(a.equals(0) || a.equals("")) {
            System.out.println("Masukan angka minimal 1 digit");
        }
        else {
            String with3digits = String.format("%05d", a);
            System.out.println("No register:" + "IBIK" + with3digits);
        }
    }
}
```

