MODUL 9

ABSTRACT CLASS

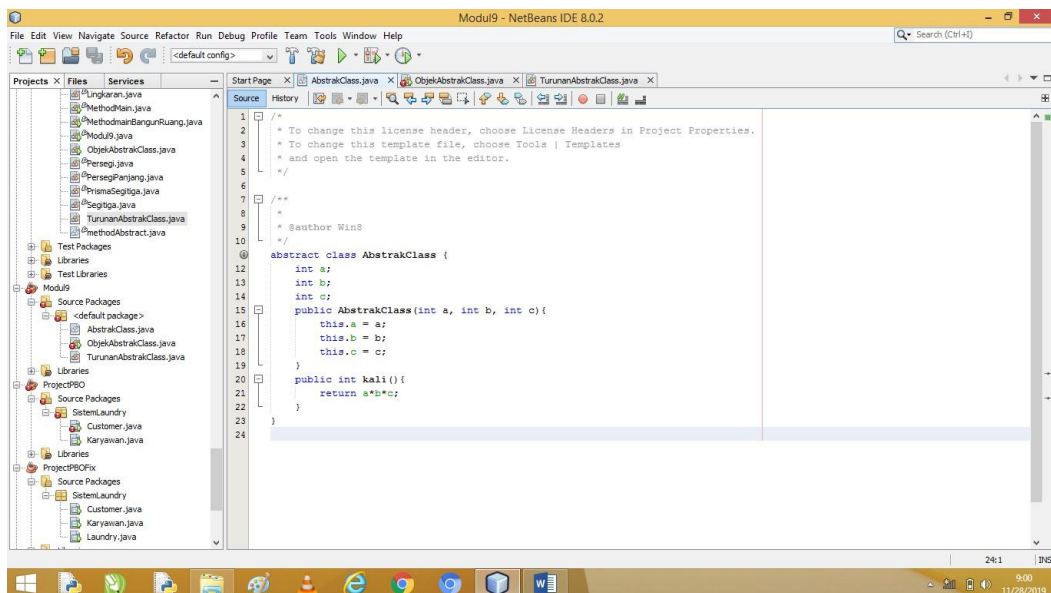# PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

Nama : Nur Taufiq Hidayat
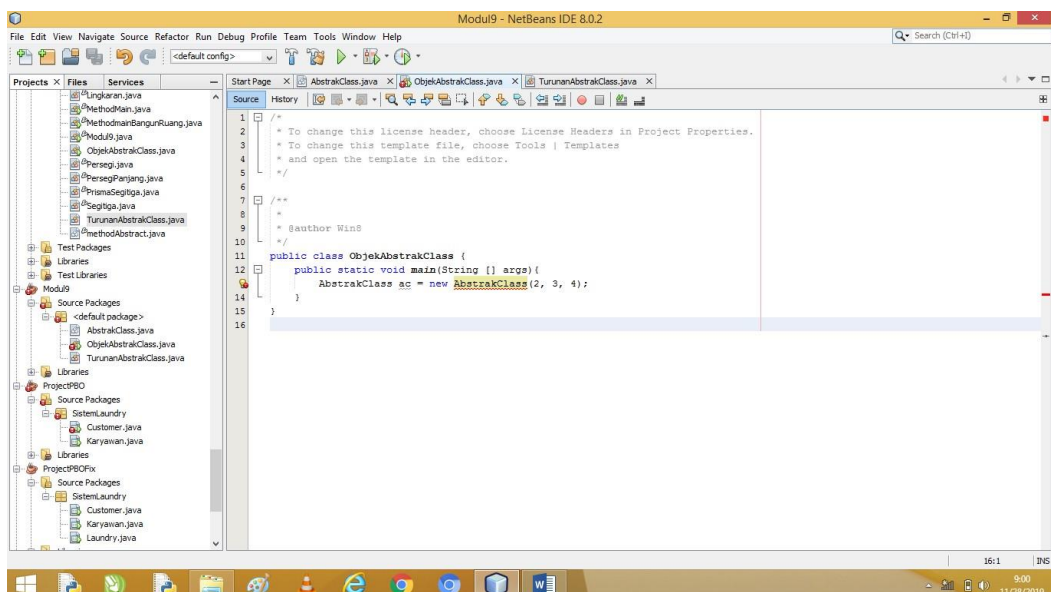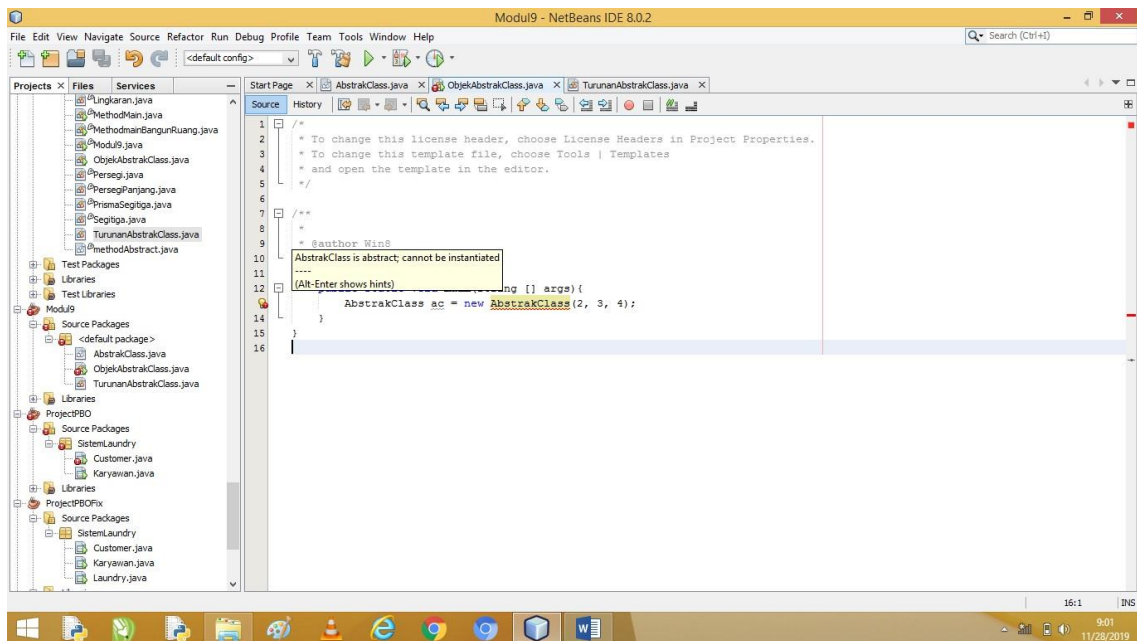
NIM : L200180069

Kelas : B

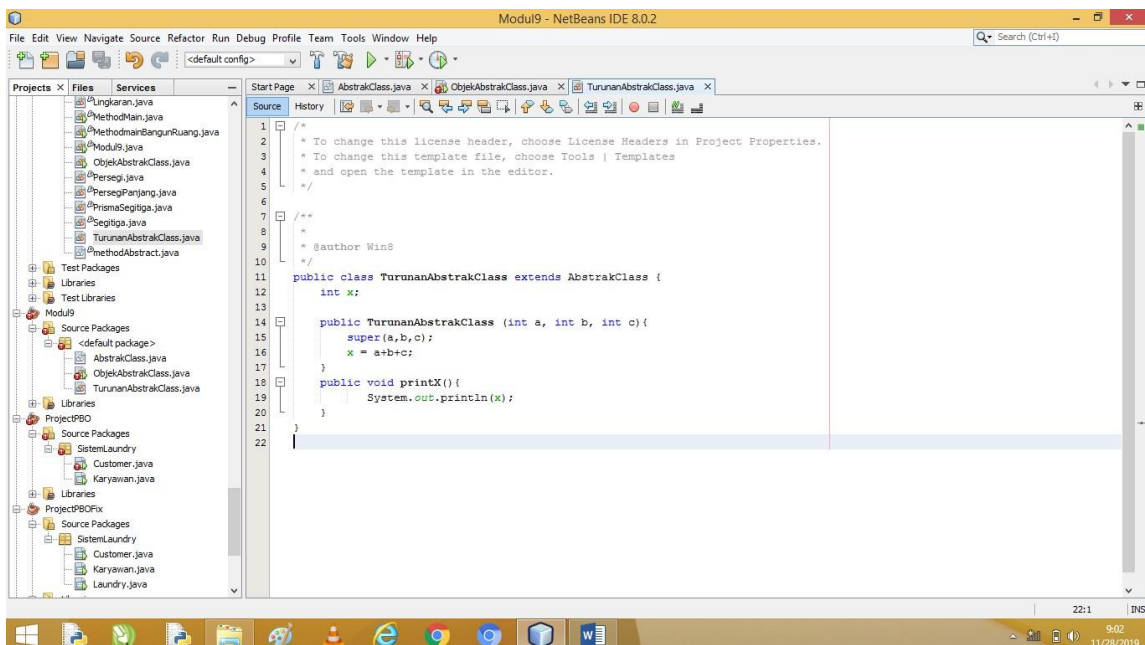❖ 9.1 OBJECT CLASS ABSTRACT

➢ Program 1. Contoh class abstract

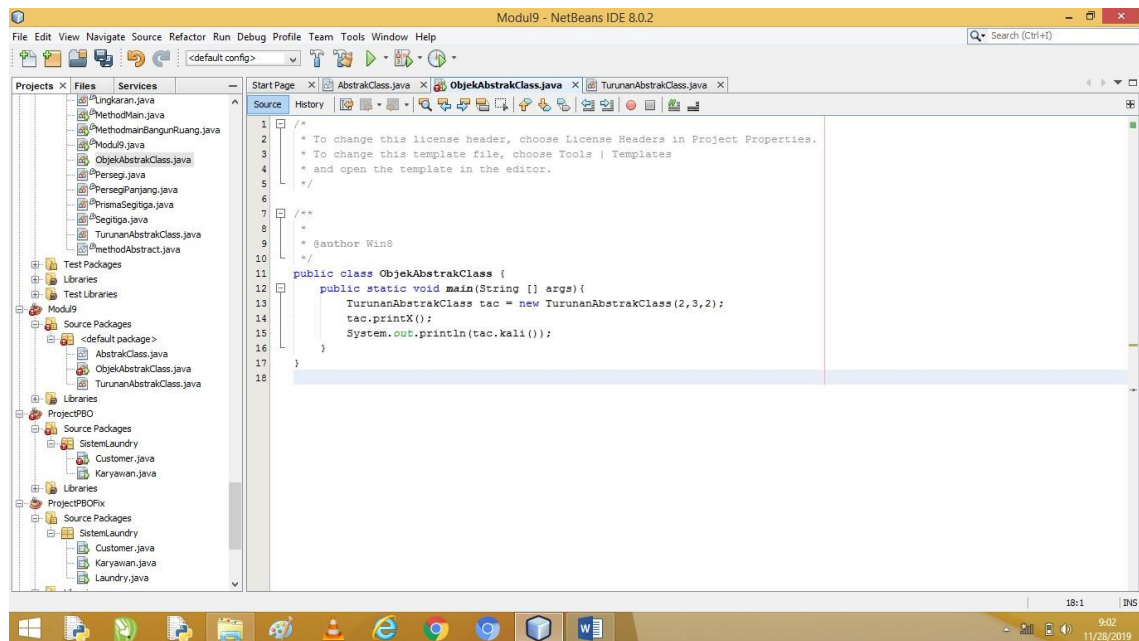

➢ Program 2. Class abstract tidak dapat dibuat objectnya

Jika kita menjalankan kode Program 2, maka bisa dipastikan terjadi kesalahan (error). Error muncul disebabkan karena ada pembuatan objek dari class AbstractClass. Sehingga untuk menggunakan class abstract agar bisa diimplementasikan kita perlu membuat kode program yang merupakan turunan dari class abstract tersebut.
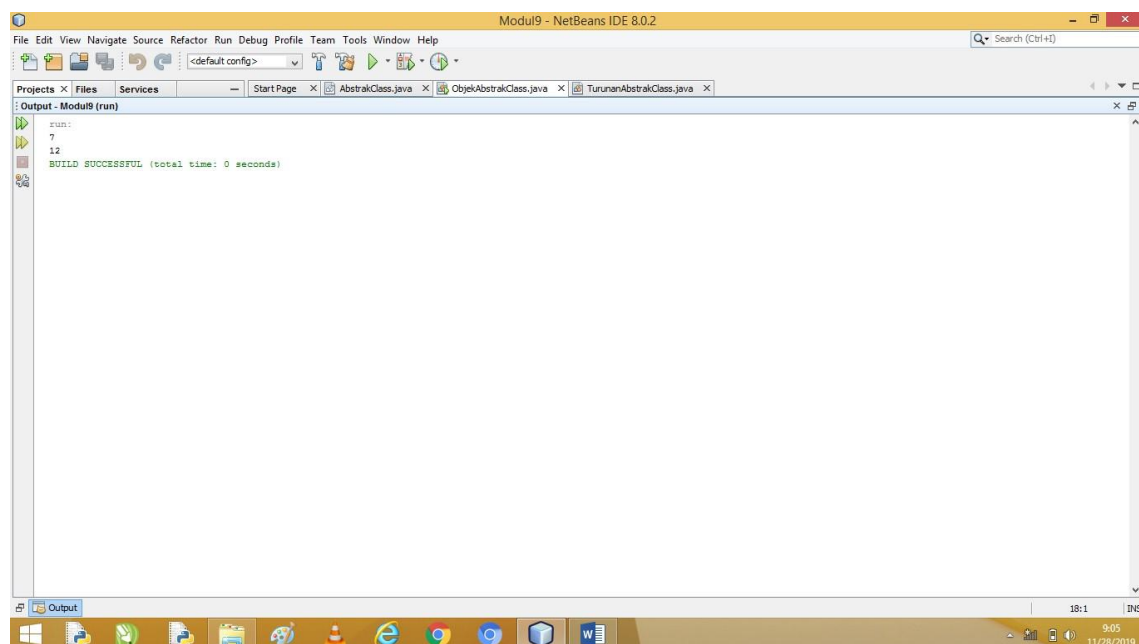
➢ Program 3. Implementasi class abstract melalui subclass

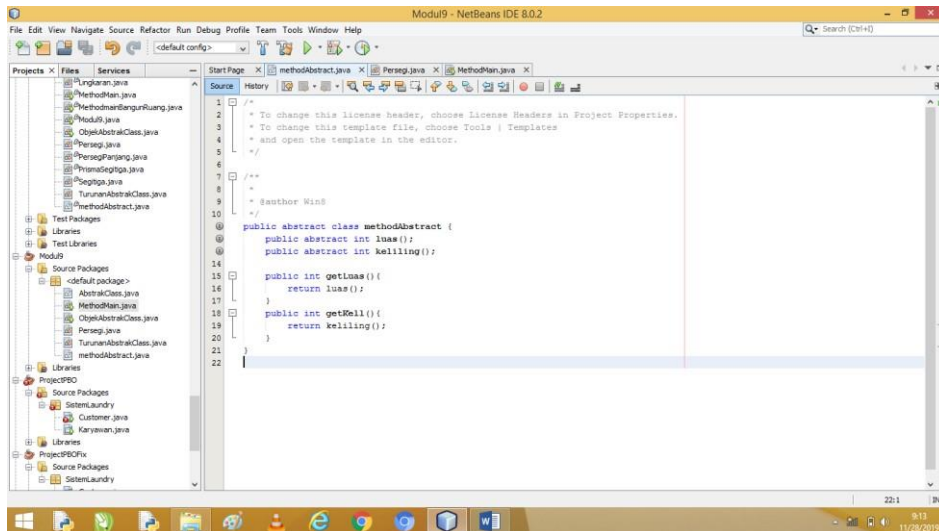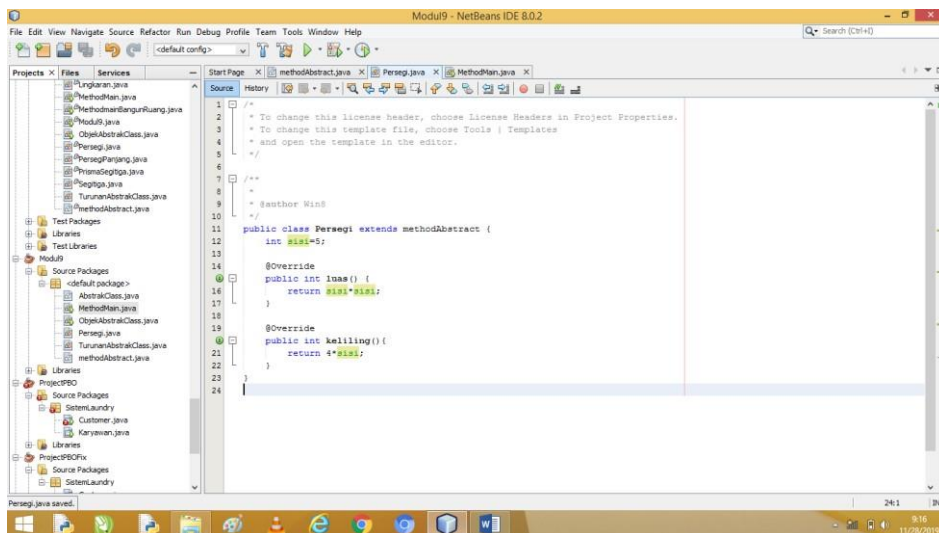➢ Program 4. Penggunaan properties class abstract melalui object subclass
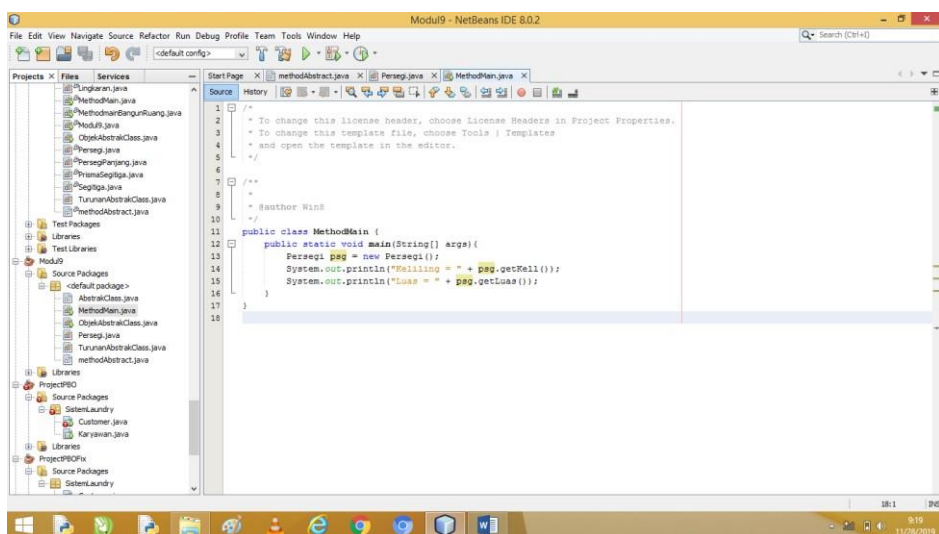
Output:

❖ 9.2 METHOD ABSTRACT

➢ Program 5. Class yang mengandung method abstract

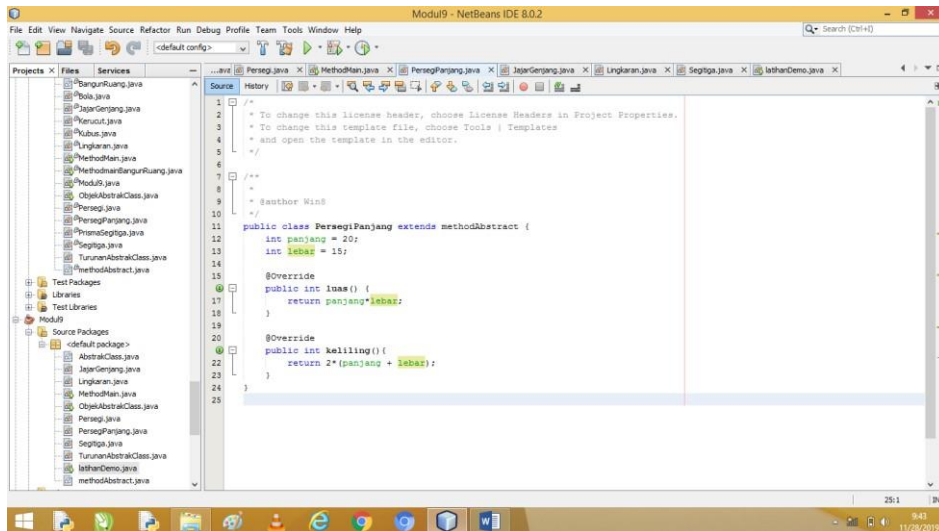> Program 6. Implementasi method abstract oleh subclass

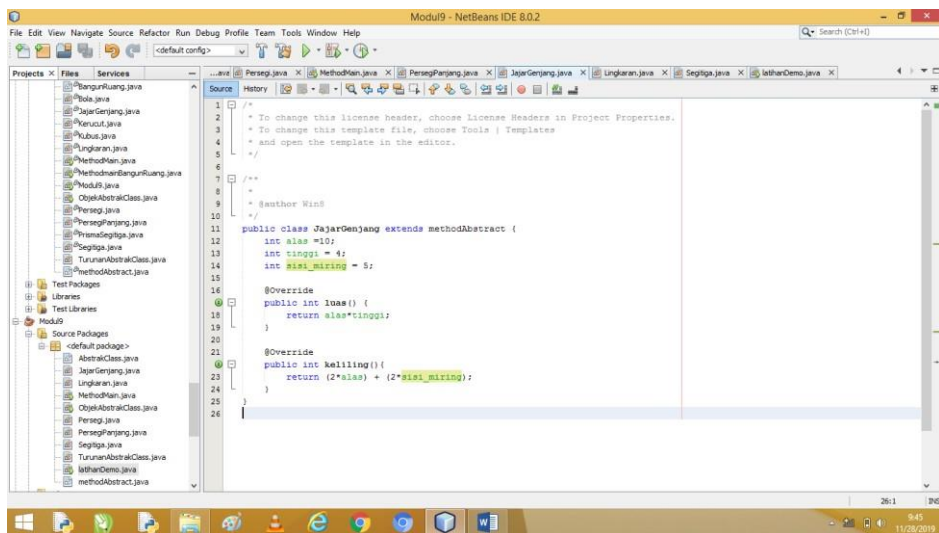> Program 7. Penggunaan properties method abstract melalui object subclass
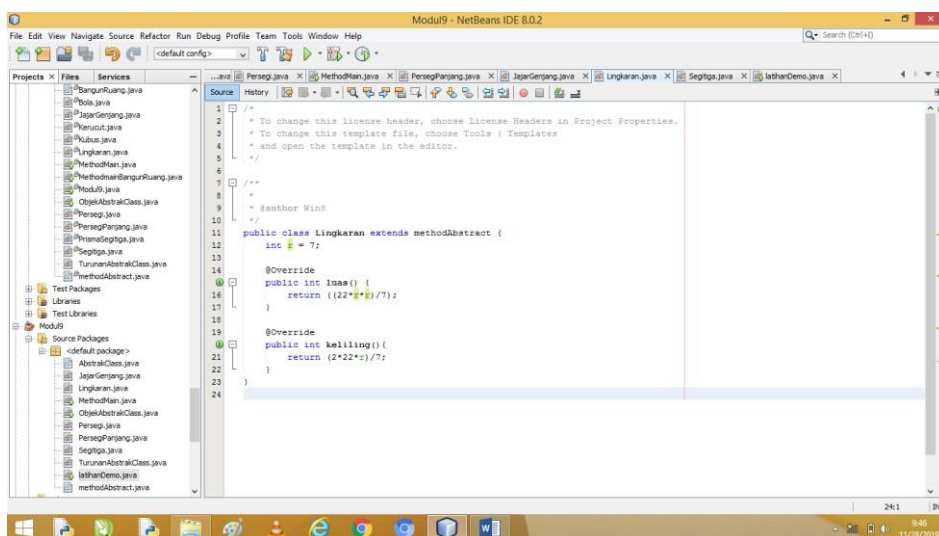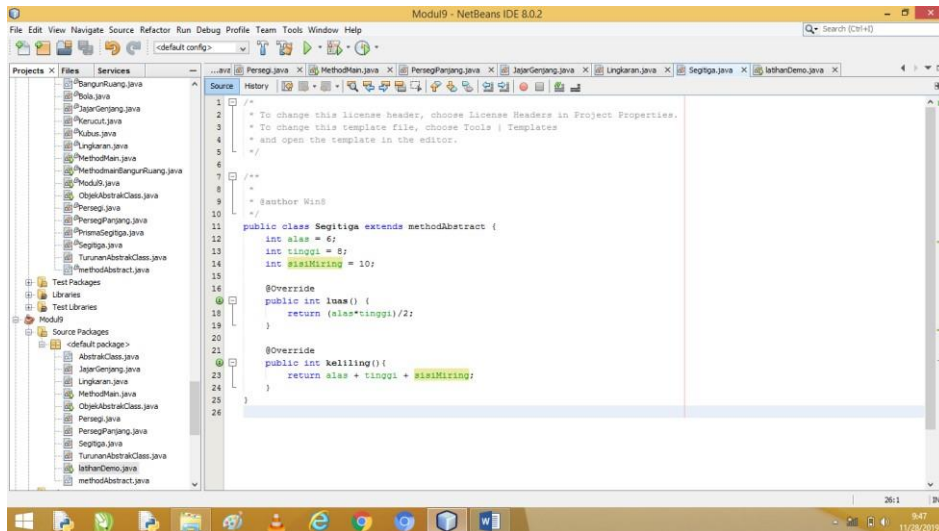

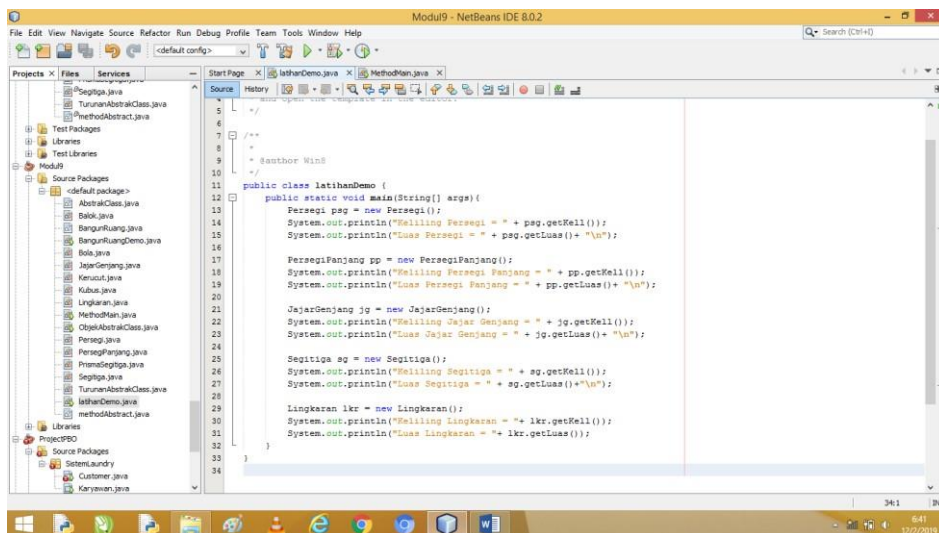❖ 9.3 LATIHAN

> Class PersegiPanjang
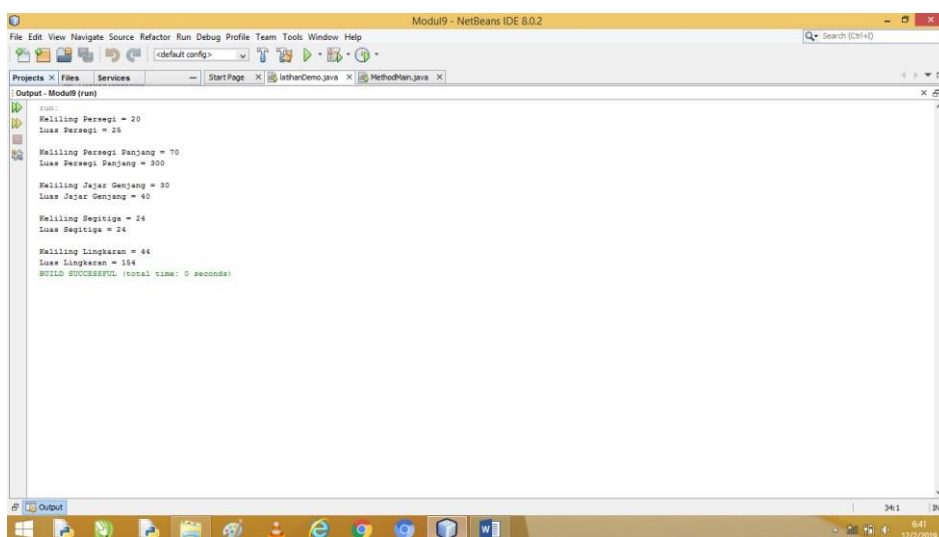
> Class JajarGenjang

> Class Lingkaran
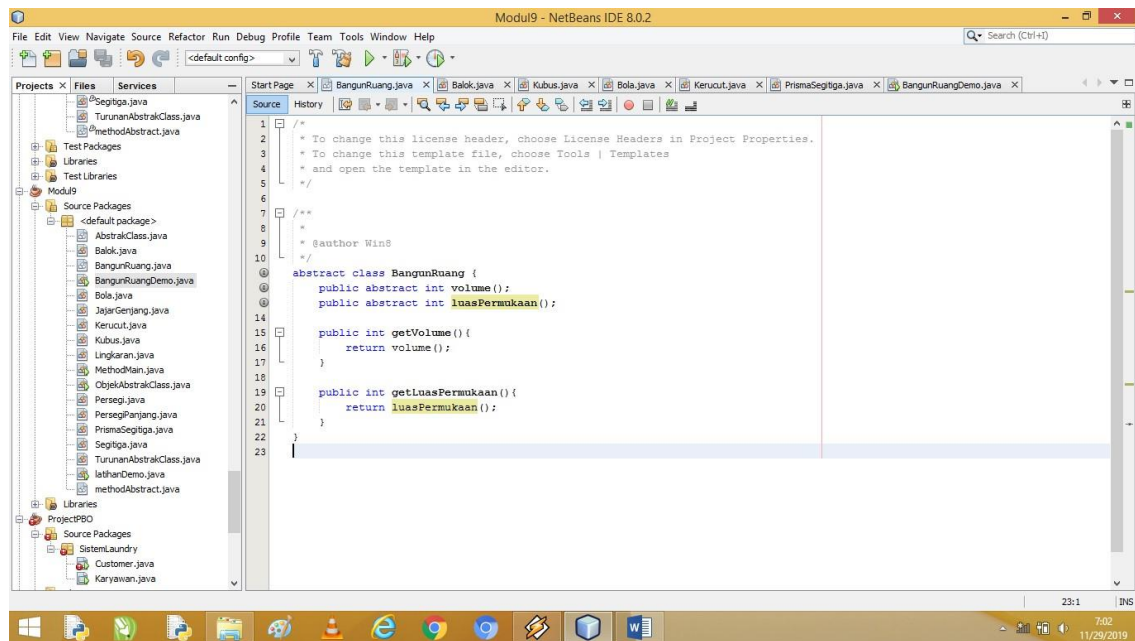

> Class Segitiga

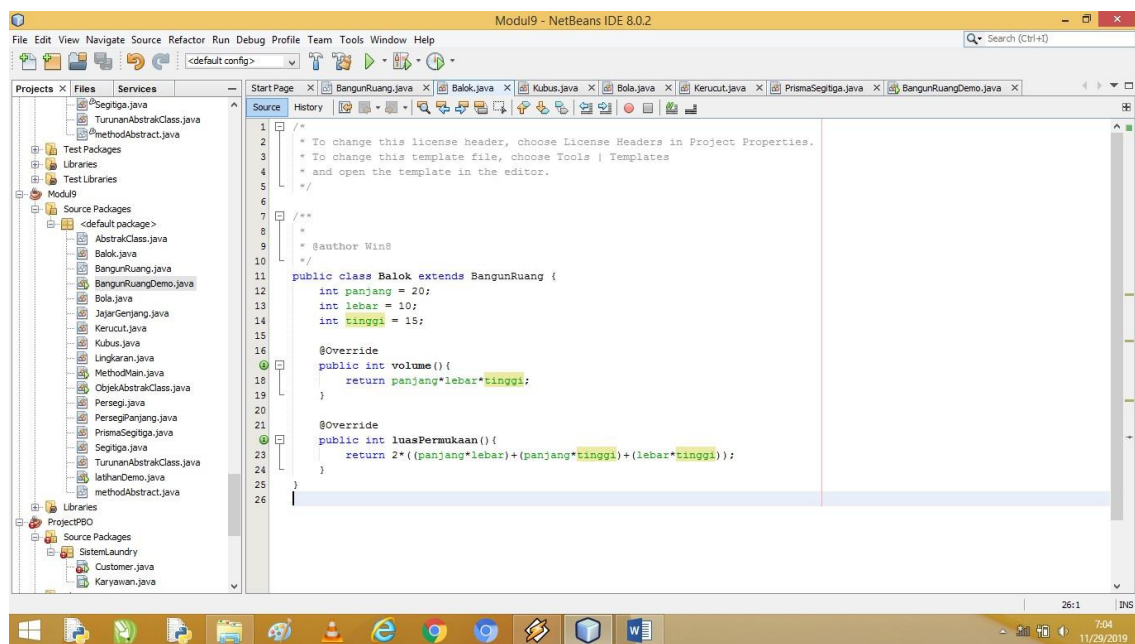> Class latihanDemo (main class)
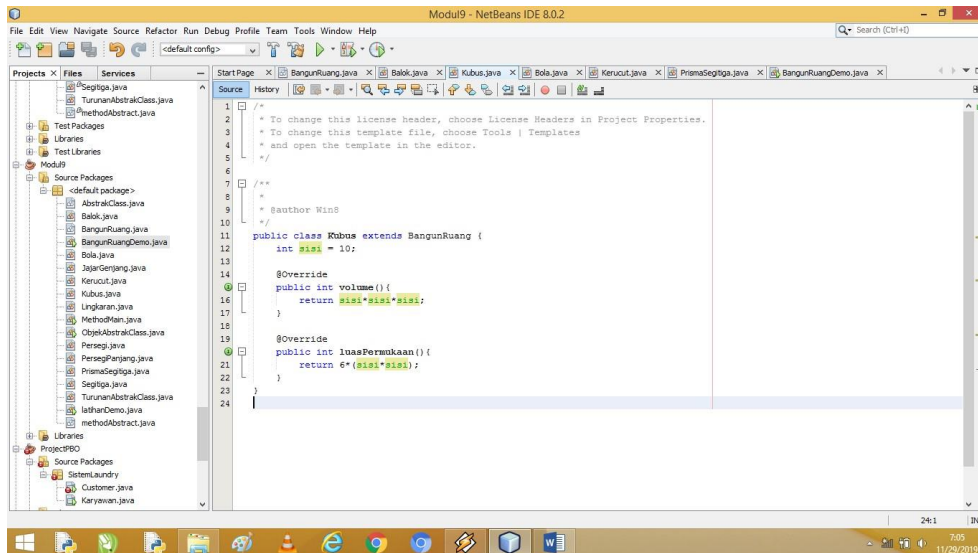

> Output:

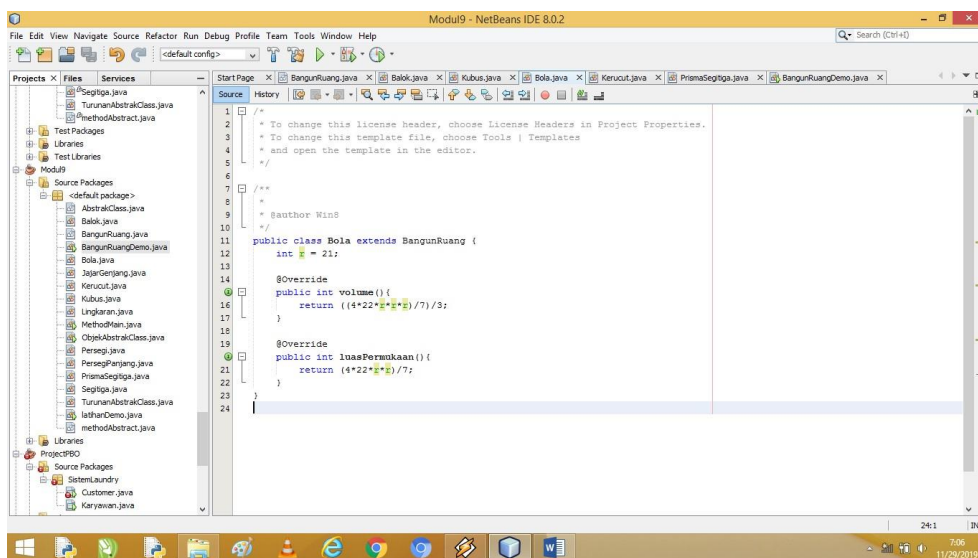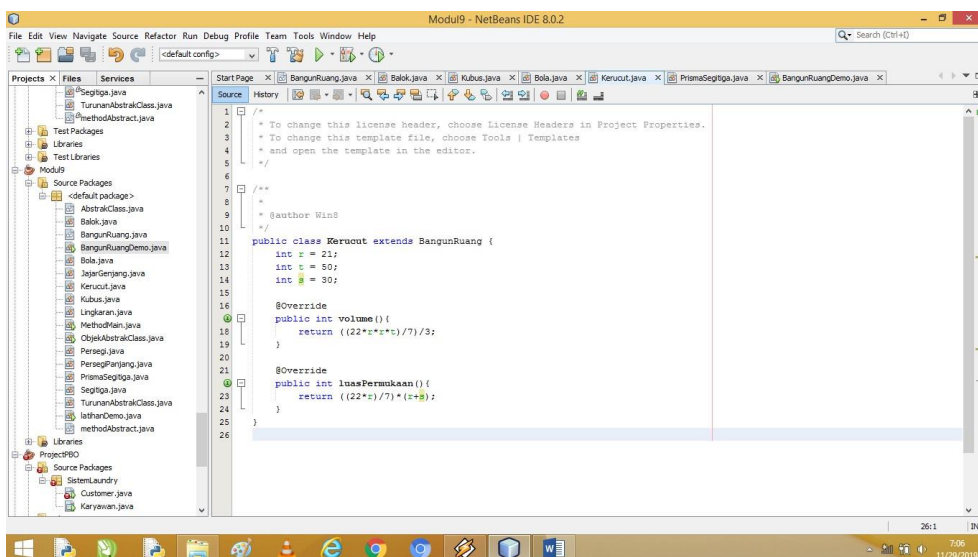❖ 9.4 TUGAS

Class BangunRuang (Abstract Class)
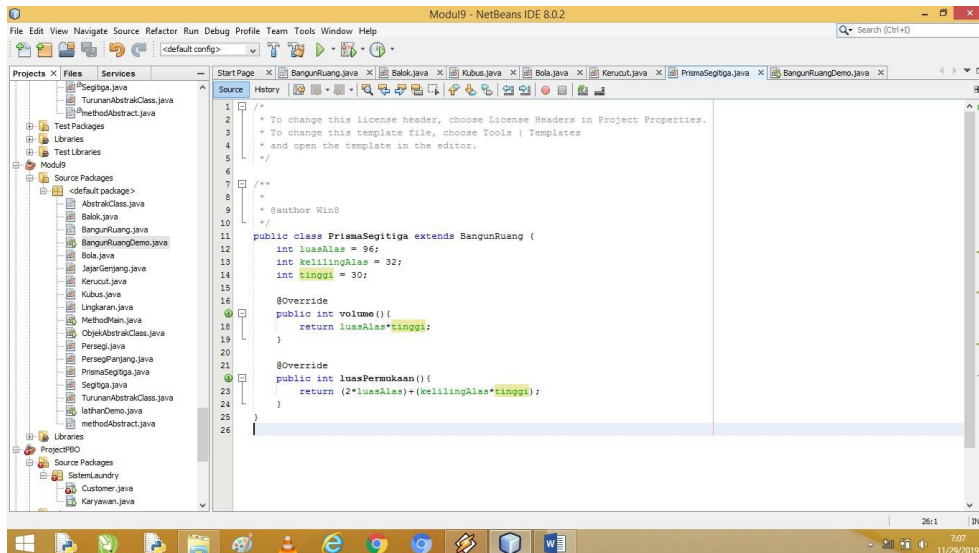

Class Balok

Class Kubus

Class Bola


```java
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Win8
 */
public class Bola extends BangunRuang {
    int r = 21;

    @Override
    public int volume(){
        return ((4*22*r*r*r)/7)/3;
    }

    @Override
    public int luasPermukaan(){
        return (4*22*r*r)/7;
    }
}
```

Class Kerucut


```java
/*
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 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Win8
 */
public class Kerucut extends BangunRuang {
    int r = 21;
    int t = 50;
    int s = 30;

    @Override
    public int volume(){
        return ((22*r*r*t)/7)/3;
    }

    @Override
    public int luasPermukaan(){
        return ((22*r)/7)*(r+s);
    }
}
```

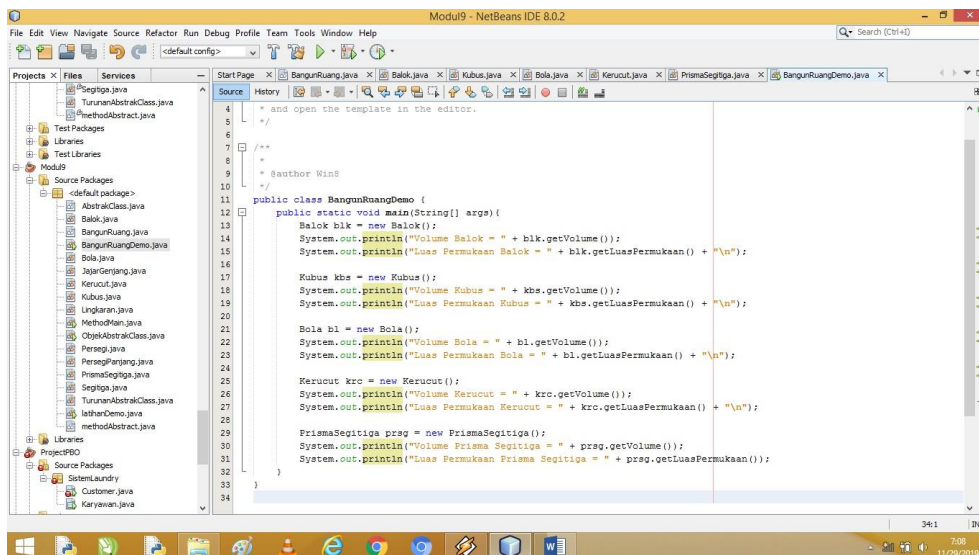## Class PrismaSegitiga

> Class BangunRuangDemo (Main Class)

> Output: