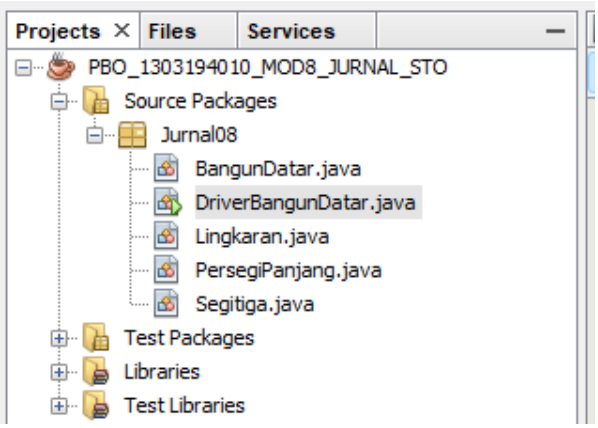
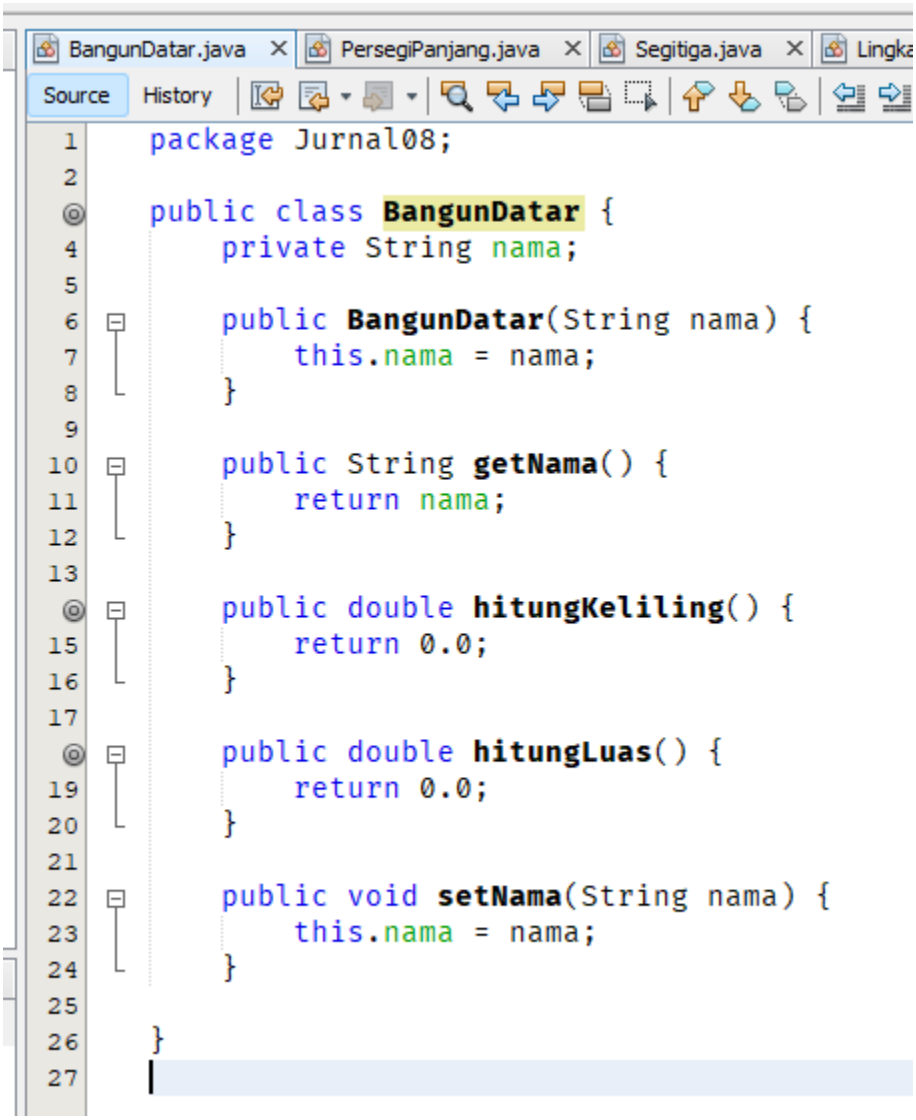
Directory File Project:



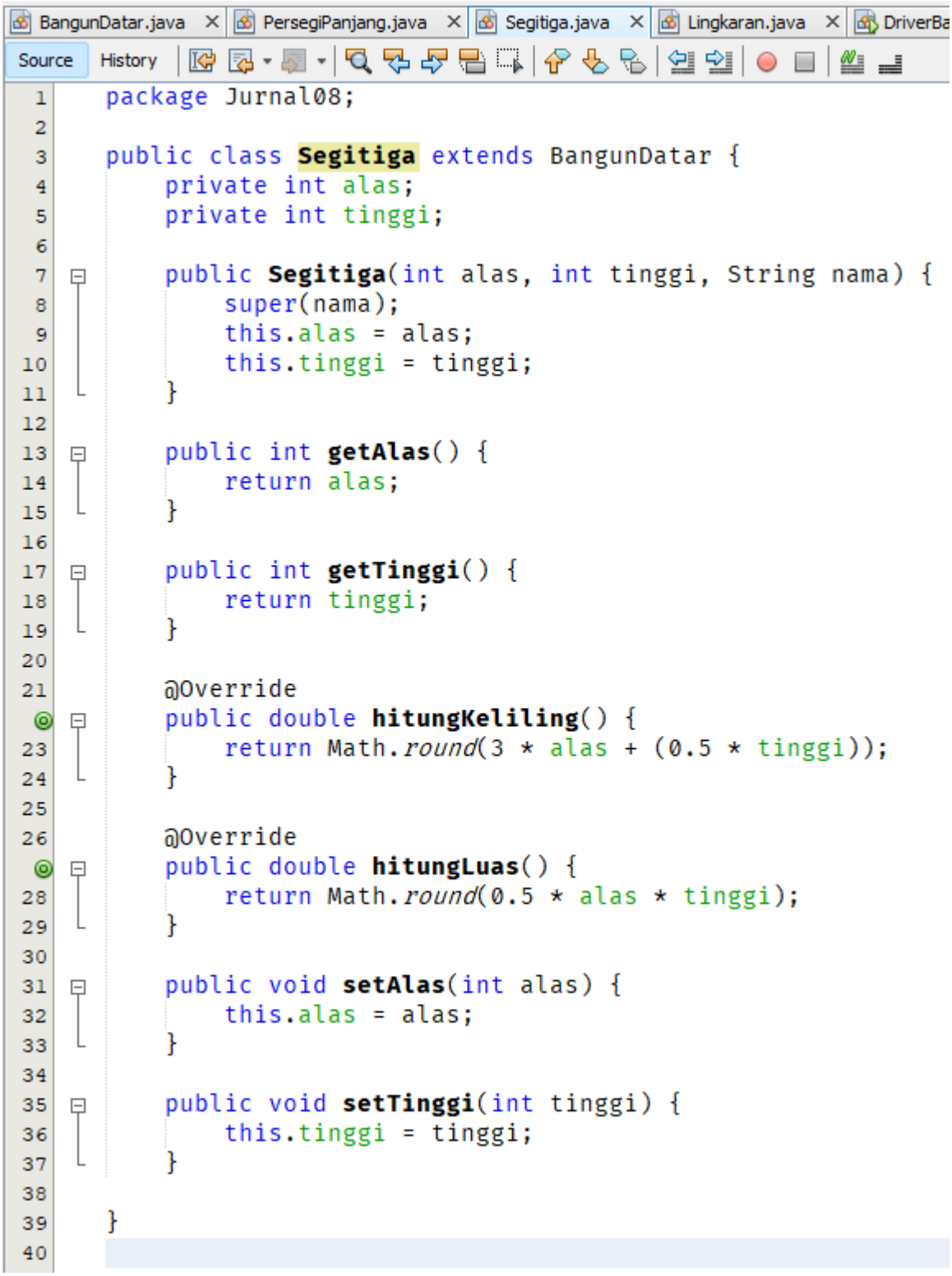
BangunDatar.java



PersegiPanjang.java

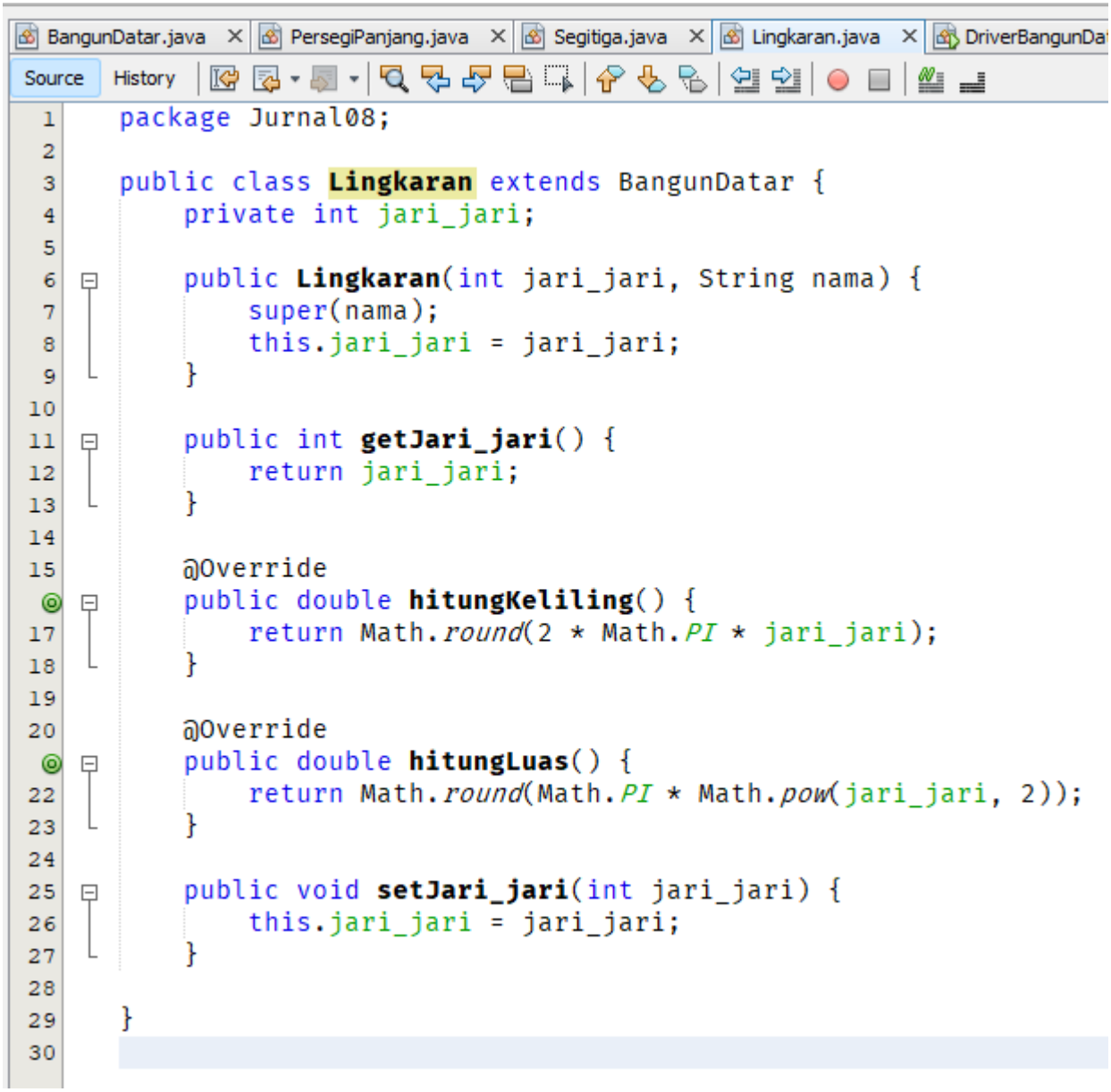
```java
package Jurnal08;

public class PersegiPanjang extends BangunDatar {
    private int lebar;
    private int panjang;

    public PersegiPanjang(int lebar, int panjang, String nama) {
        super(nama);
        this.lebar = lebar;
        this.panjang = panjang;
    }

    public int getLebar() {
        return lebar;
    }

    public int getPanjang() {
        return panjang;
    }

    @Override
    public double hitungKeliling() {
        return Math.round(2 * (lebar + panjang));
    }

    @Override
    public double hitungLuas() {
        return Math.round(panjang * lebar);
    }

    public void setLebar(int lebar) {
        this.lebar = lebar;
    }

    public void setPanjang(int panjang) {
        this.panjang = panjang;
    }

}
```

Segitiga.java




```java
package Jurnal08;

public class Segitiga extends BangunDatar {
    private int alas;
    private int tinggi;

    public Segitiga(int alas, int tinggi, String nama) {
        super(nama);
        this.alas = alas;
        this.tinggi = tinggi;
    }

    public int getAlas() {
        return alas;
    }

    public int getTinggi() {
        return tinggi;
    }

    @Override
    public double hitungKeliling() {
        return Math.round(3 * alas + (0.5 * tinggi));
    }

    @Override
    public double hitungLuas() {
        return Math.round(0.5 * alas * tinggi);
    }

    public void setAlas(int alas) {
        this.alas = alas;
    }

    public void setTinggi(int tinggi) {
        this.tinggi = tinggi;
    }

}
```

Lingkaran.java




```java
package Jurnal08;

public class Lingkaran extends BangunDatar {
    private int jari_jari;

    public Lingkaran(int jari_jari, String nama) {
        super(nama);
        this.jari_jari = jari_jari;
    }

    public int getJari_jari() {
        return jari_jari;
    }

    @Override
    public double hitungKeliling() {
        return Math.round(2 * Math.PI * jari_jari);
    }

    @Override
    public double hitungLuas() {
        return Math.round(Math.PI * Math.pow(jari_jari, 2));
    }

    public void setJari_jari(int jari_jari) {
        this.jari_jari = jari_jari;
    }

}
```

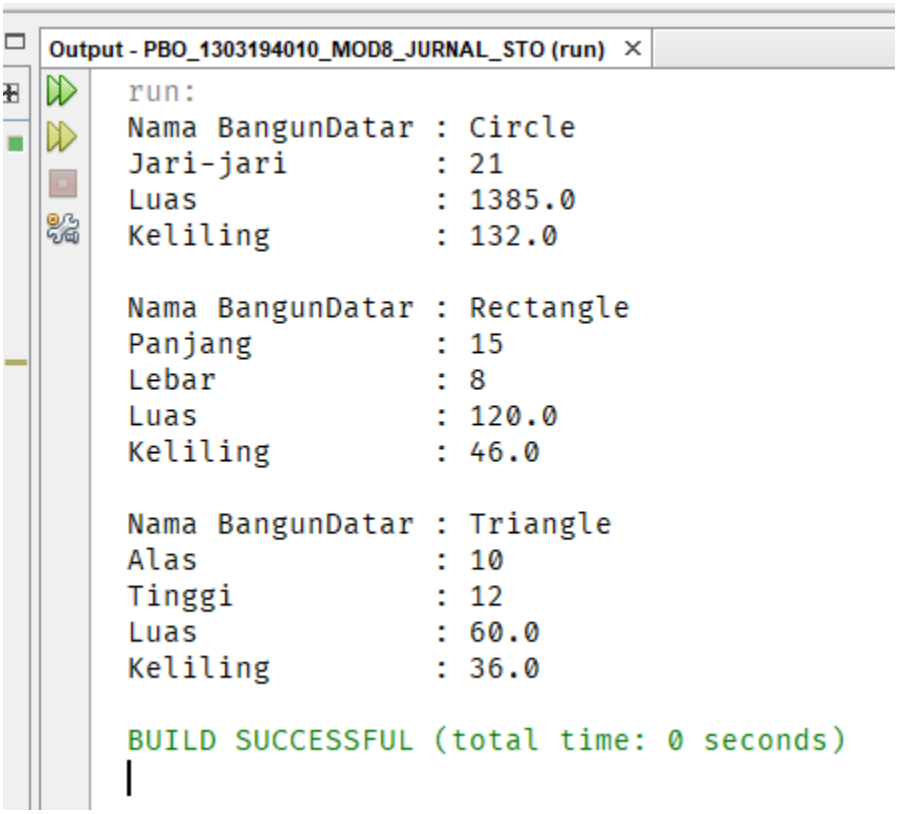
DriverBangunDatar.java

BangunDatar.java | PersegiPanjang.java | Segitiga.java | Lingkaran.java | DriverBangunDatar.java

Source | History

```java
package Jurnal08;

public class DriverBangunDatar {
    public static void main(String[] args) {
        BangunDatar BD[] = new BangunDatar[3];

        BD[0] = new Lingkaran(21, "Circle");
        BD[1] = new PersegiPanjang(15, 8, "Rectangle");
        BD[2] = new Segitiga(10, 12, "Triangle");

        for (BangunDatar BD1 : BD) {
            System.out.println("Nama BangunDatar : " + BD1.getNama());
            if (null ≠ BD1.getNama()) switch (BD1.getNama()) {
                case "Circle":
                    System.out.println("Jari-jari        : " + 21);
                    break;
                case "Rectangle":
                    System.out.println("Panjang          : " + 15);
                    System.out.println("Lebar            : " + 8);
                    break;
                case "Triangle":
                    System.out.println("Alas             : " + 10);
                    System.out.println("Tinggi           : " + 12);
                    break;
                default:
                    break;
            }
            System.out.println("Luas             : " + BD1.hitungLuas());
            System.out.println("Keliling         : " + BD1.hitungKeliling());
            System.out.println("");
        }

    }
}
```

Output:


Output - PBO_1303194010_MOD8_JURNAL_STO (run)
run:
Nama BangunDatar : Circle
Jari-jari : 21
Luas : 1385.0
Keliling : 132.0
Nama BangunDatar : Rectangle
Panjang : 15
Lebar : 8
Luas : 120.0
Keliling : 46.0
Nama BangunDatar : Triangle
Alas : 10
Tinggi : 12
Luas : 60.0
Keliling : 36.0
BUILD SUCCESSFUL (total time: 0 seconds)