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TUGAS POLIMORFISME

Latihan 1

```
package geometry;

public class Shape {
    private float luas;

    Shape(){
        luas = 0;
    }

    public void setLuas(float luas) {
        this.luas = luas;
    }

    public float getLuas() {
        return luas;
    }
}
```

```
package geometry;

class Circle extends Shape {
    private float radius;

    Circle(){
        radius = 0;
    }

    Circle(float radius){
        this.radius = radius;
    }

    public void setRadius(float radius) {
        this.radius = radius;
    }

    public float getRadius() {
        return radius;
    }

    @Override
    public float getLuas() {
        setLuas((float) Math.PI * radius * radius);
    }
}
```

```
        return super.getLuas();
    }
}
```

```
package geometry;

class Rectangle extends Shape {
    private float panjang;
    private float lebar;

    Rectangle(){
        panjang = 0;
        lebar = 0;
    }

    Rectangle(float panjang, float lebar){
        this.panjang = panjang;
        this.lebar = lebar;
    }

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

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

    public float getPanjang() {
        return panjang;
    }

    public float getLebar() {
        return lebar;
    }

    @Override
    public float getLuas() {
        setLuas(panjang * lebar);
        return super.getLuas();
    }
}
```

```
package geometry;

class Triangle extends Shape {
    private float alas;
    private float tinggi;

    Triangle(){
```

```

        alas = 0;
        tinggi = 0;
    }

    Triangle(float alas, float tinggi){
        this.alas = alas;
        this.tinggi = tinggi;
    }

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

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

    public float getAlas() {
        return alas;
    }

    public float getTinggi() {
        return tinggi;
    }

    @Override
    public float getLuas() {
        setLuas(alas * tinggi / 2);
        return super.getLuas();
    }
}

```

```

package geometry;

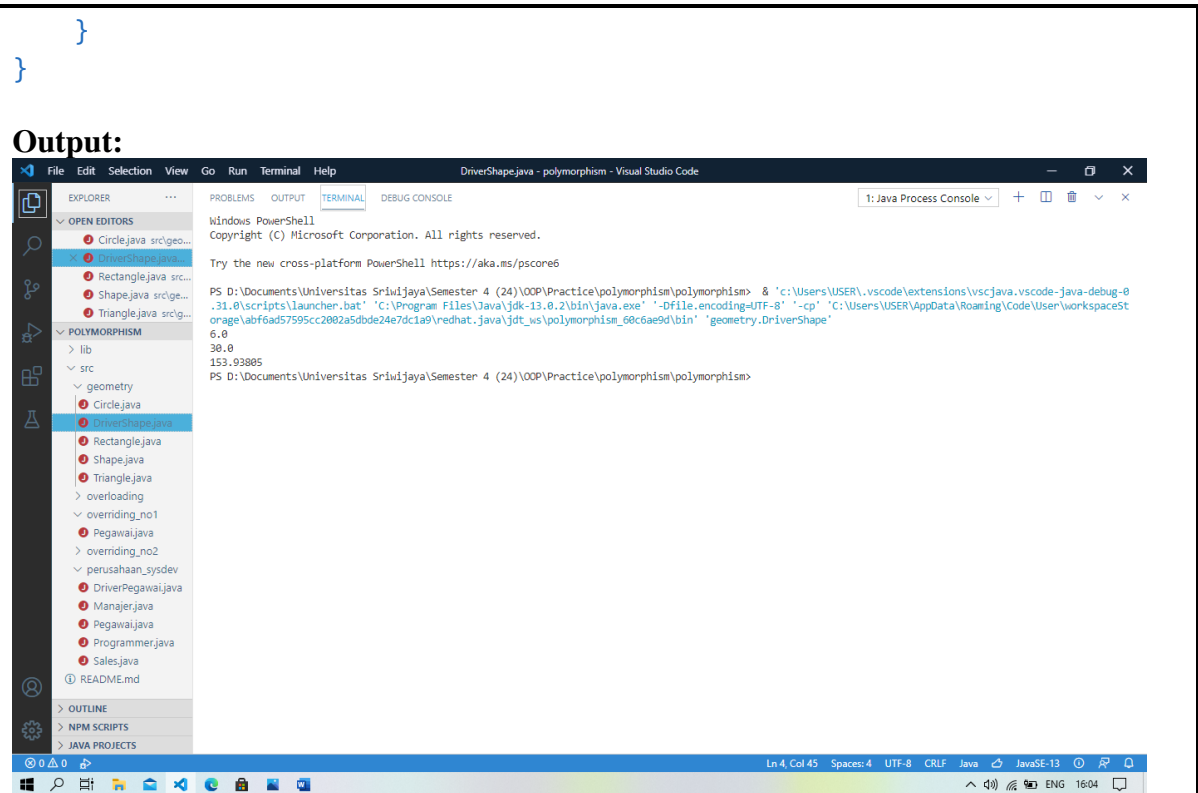
public class DriverShape {
    public static void main(String[] args) {
        Shape shape;
        Triangle triangle = new Triangle(4, 3);
        Rectangle rectangle = new Rectangle(5,6);
        Circle circle = new Circle(7);

        shape = triangle;
        System.out.println(shape.getLuas());

        shape = rectangle;
        System.out.println(shape.getLuas());

        shape = circle;
        System.out.println(shape.getLuas());
    }
}

```



Latihan 2

```
package perusahaan_sysdev;

public class Pegawai {
    private String nama;
    private int gajiPokok;

    Pegawai(){
        nama = "-";
        gajiPokok = 0;
    }

    public void setNama(String nama) {
        this.nama = nama;
    }

    public void setGajiPokok(int gajiPokok) {
        this.gajiPokok = gajiPokok;
    }

    public String getNama() {
        return nama;
    }

    public int getGajiPokok() {
        return gajiPokok;
    }
}
```

```
    }

    public int hitungGaji(){
        return gajiPokok;
    }
}
```

```
package perusahaan_sysdev;

class Programmer extends Pegawai{
    Programmer(){
        super();
    }

    Programmer(String nama, int gajiPokok){
        setNama(nama);
        setGajiPokok(gajiPokok);
    }

    @Override
    public int hitungGaji() {
        return super.hitungGaji();
    }
}
```

```
package perusahaan_sysdev;

class Sales extends Pegawai{
    private int bonus;

    Sales(){
        super();
        bonus = 0;
    }

    Sales(String nama, int gajiPokok, int bonus){
        setNama(nama);
        setGajiPokok(gajiPokok);
        this.bonus = bonus;
    }

    public void setBonus(int bonus) {
        this.bonus = bonus;
    }

    public int getBonus() {
        return bonus;
    }

    @Override
```

```
        public int hitungGaji() {  
            return super.hitungGaji() + bonus;  
        }  
    }  
}
```

```
package perusahaan_sysdev;
```

```
class Manajer extends Pegawai{  
    private int tunjangan;  
  
    Manajer(){  
        super();  
        tunjangan = 0;  
    }  
  
    Manajer(String nama, int gajiPokok, int tunjangan){  
        setNama(nama);  
        setGajiPokok(gajiPokok);  
        this.tunjangan = tunjangan;  
    }  
  
    public void setTunjangan(int tunjangan) {  
        this.tunjangan = tunjangan;  
    }  
  
    public int getTunjangan() {  
        return tunjangan;  
    }  
  
    @Override  
    public int hitungGaji() {  
        return super.hitungGaji() + tunjangan;  
    }  
}
```

```
package perusahaan_sysdev;
```

```
public class DriverPegawai {  
    public static void main(String[] args) {  
        Pegawai pegawai;  
        Programmer ferza = new Programmer("Ferza", 50000000);  
        Sales noa = new Sales("Noa", 40000000, 2500000);  
        Manajer tsurushima = new Manajer("Tsurushima", 55000000, 5000000);  
  
        pegawai = ferza;  
        System.out.println(pegawai.hitungGaji());  
  
        pegawai = noa;  
        System.out.println(pegawai.hitungGaji());  
    }  
}
```

```

    pegawai = tsurushima;
    System.out.println(pegawai.hitungGaji());
}
}

```

Output:

