Banu Wisnu Murti
L200180133
Kelas C

BangunRuang.java:

```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.
 */
package Tugas;

/**
 *
 * @author LABRPL-3
 */
public abstract class BangunRuang {
    public abstract int volume();
    public abstract int luas();

    public int getVolume(){
        return volume();
    }

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

Output - Abstraction (run):
```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```


Kubus.java:

```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.
 */
package Tugas;

/**
 *
 * @author LABRPL-3
 */
public class Kubus extends BangunRuang{
    int sisi=5;

    public int volume(){
        return sisi*sisi*sisi;
    }

    public int luas(){
        return 6*(sisi*sisi);
    }
}
```

Output - Abstraction (run):
```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+I)

`<default config>`

Projects × Files Services

- Abstraction
  - Source Packages
    - `<default package>`
      - AbstrakClass.java
      - JajarGenjang.java
      - Lingkaran.java
      - MethodMain.java
      - ObjekAbstrakClass.java
      - Persegi.java
      - PersegiPanjang.java
      - Segitiga.java
      - TurunanAbstrakClass.java
      - methodAbstract.java
    - Tugas
      - Balok.java
      - BangunRuang.java
      - Bola.java
      - Kerucut.java
      - Kubus.java
      - MethodMain.java
      - PrismaSegitiga.java
  - Test Packages
  - Libraries
  - Test Libraries
- demo
- modul2
- modul3
  - Source Packages
    - modul3
      - InstanceVariable.java
      - MethodParameter.java
      - Modul3.java
      - Nilai.java
      - NonVoidMethod.java
      - Pegawai.java
  - Libraries

...ava BangunRuang.java × Bola.java × PrismaSegitiga.java × Kerucut.java × MethodMain.java × Kubus.java × Balok.java ×

Source History

```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.
 */
package Tugas;

/**
 *
 * @author LABRPL-3
 */
public class Balok extends BangunRuang{
    int panjang=10;
    int lebar=5;
    int tinggi=6;

    public int volume(){
        return panjang*lebar*tinggi;
    }

    public int luas(){
        return 2*(panjang*lebar+panjang*tinggi+lebar*tinggi);
    }
}
```

Output - Abstraction (run) ×

```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```

1:1 INS

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

...ava | BangunRuang.java | Bola.java | PrismaSegitiga.java | Kerucut.java | MethodMain.java | Kubus.java | Balok.java

Source History

```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.
 */
package Tugas;

/**
 *
 * @author LABRPL-3
 */
public class Bola extends BangunRuang{
    int jarijari=7;

    public int volume(){
        return 4/3*22/7*jarijari*jarijari*jarijari;
    }

    public int luas(){
        return 4*22/7*jarijari*jarijari;
    }
}
```

Output - Abstraction (run)

```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```

1:1   INS

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

...ava | BangunRuang.java | Bola.java | PrismaSegitiga.java | Kerucut.java | MethodMain.java | Kubus.java | Balok.java

Source History

```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.
 */
package Tugas;

/**
 *
 * @author LABRPL-3
 */
public class Kerucut extends BangunRuang{
    int tinggi=28;
    int jarijari=7;
    int sisimiring=(int) Math.sqrt((jarijari)*(jarijari) + (tinggi)*(tinggi));

    public int volume(){
        return 22/7*jarijari*jarijari*tinggi/3;
    }

    public int luas(){
        return 22/7*jarijari*(jarijari+sisimiring);
    }
}
```

Output - Abstraction (run)

```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```

1:1   INS

```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.
 */
package Tugas;

/**
 *
 * @author LABRPL-3
 */
public class PrismaSegitiga extends BangunRuang{
    int panjang=10;
    int lebar=5;
    int tinggi=6;
    int luasSegitiga=20;

    public int volume(){
        return panjang*lebar*tinggi/2;
    }

    public int luas(){
        return luasSegitiga+2*(panjang*lebar+panjang*tinggi+lebar*tinggi);
    }
}
```

Output - Abstraction (run)

```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```

```java
public static void main(String[] args) {
    Balok bal = new Balok();
    System.out.println("\nBalok :");
    System.out.println("Volume = "+bal.getVolume());
    System.out.println("Luas Permukaan = "+bal.getLuas());

    Kubus kub = new Kubus();
    System.out.println("\nKubus :");
    System.out.println("Volume = "+kub.getVolume());
    System.out.println("Luas Permukaan = "+kub.getLuas());

    Bola bol = new Bola();
    System.out.println("\nBola :");
    System.out.println("Volume = "+bol.getVolume());
    System.out.println("Luas Permukaan = "+bol.getLuas());

    Kerucut krc = new Kerucut();
    System.out.println("\nKerucut :");
    System.out.println("Volume = "+krc.getVolume());
    System.out.println("Luas Permukaan = "+krc.getLuas());

    PrismaSegitiga prs = new PrismaSegitiga();
    System.out.println("\nPrisma Segitiga :");
    System.out.println("Volume = "+prs.getVolume());
    System.out.println("Luas Permukaan = "+prs.getLuas());
```

Output - Abstraction (run)

```
Luas Permukaan = 735

Prisma Segitiga :
Volume = 150
Luas Permukaan = 300
BUILD SUCCESSFUL (total time: 1 second)
```