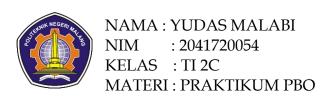## Praktikum 1

VideoGame

+ id: int

+ namaGame: String

+ harga: double

+ tampilGame: void

Member

+ id: int

+ namaMember: String

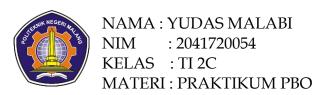+ tampilMember: void

---

Main

Peminjaman

+ id: int

+ namaMember: String

+ namaGame: String

+ lamaSewa: int

+ hargaBayar: double

+ tampilPeminjaman: void

+ hitungTotal(lamaSewa: int, harga: double): double

Praktikum 2

VideoGame.java

```java
public class VideoGame {

    public int id;
    public String namaGame;
    public double harga;

    public void tampilGame() {
        System.out.println("═══════════════════════════════════");
        System.out.println("Video Game");
        System.out.println("═══════════════════════════════════");
        System.out.println("Id          : " + this.id);
        System.out.println("Nama Game    : " + this.namaGame);
        System.out.println("Harga Game   : " + this.harga);
        System.out.println("═══════════════════════════════════");

    }

}
```

Member.java

```java
public class Member {

    public int id;
    public String namaMember;

    public void tampilMember() {
        System.out.println("═══════════════════════════════════");
        System.out.println("Member");
        System.out.println("═══════════════════════════════════");
        System.out.println("Id             : " + this.id);
        System.out.println("Nama Member      : " + this.namaMember);
        System.out.println("═══════════════════════════════════");

    }

}
```

Peminjaman.java

```java
public class Peminjaman {

    public int id;
    public String namaMember;
    public String namaGame;
    public int lamaSewa;
    public double hargaBayar;

    public void tampilPeminjaman() {
        System.out.println("═══════════════════════════════");
        System.out.println("Peminjaman");
        System.out.println("Id            : " + this.id);
        System.out.println("Nama Member : " + this.namaMember);
        System.out.println("Nama Game    : " + this.namaGame);
        System.out.println("Lama Sewa    : " + this.lamaSewa);
        System.out.println("Harga Bayar : " + this.hargaBayar);
        System.out.println("═══════════════════════════════");
    }

    public double hitungTotal(int lamaSewa, double harga) {
        return lamaSewa * harga;
    }

}
```

Main.java

```java
public class Main {

    Run | Debug
    public static void main(String[] args) {
        VideoGame videoGame = new VideoGame();
        Member member = new Member();
        Peminjaman peminjaman = new Peminjaman();

        videoGame.id = 1;
        videoGame.namaGame = "Counter Strike";
        videoGame.harga = 20000;
        videoGame.tampilGame();
        System.out.println();

        member.id = 1;
        member.namaMember = "Yudas Malabi";
        member.tampilMember();
        System.out.println();

        peminjaman.id = 1;
        peminjaman.namaMember = member.namaMember;
        peminjaman.namaGame = videoGame.namaGame;
        peminjaman.lamaSewa = 3;
        peminjaman.hargaBayar = peminjaman.hitungTotal(peminjaman.lamaSewa, videoGame.harga);
        peminjaman.tampilPeminjaman();

    }
}
```

Output :

```
========================================
Video Game
========================================
Id          : 1
Nama Game   : Counter Strike
Harga Game  : 20000.0
========================================


========================================
Member
========================================
Id              : 1
Nama Member     : Yudas Malabi
========================================


========================================
Peminjaman
Id          : 1
Nama Member : Yudas Malabi
Nama Game   : Counter Strike
Lama Sewa   : 3
Harga Bayar : 60000.0
========================================
```

Praktikum 3

Lingkaran.java

```java
/*
|
| Lingkaran Class
|
|
| Create Lingkaran Class.
| @author Yudas Malabi
|
*/
public class Lingkaran {

    public double phi, r;

    public double hitungLuas(double phi, double r) {
        return phi * r * r;
    }

    public double hitungKeliling(double phi, double r) {
        return 2 * phi * r;
    }

}
```

Main.java

```java
/*
|_____
| Main Class
|_____
|
| Create Main Class.
| @author Yudas Malabi
|
*/
public class Main {

    Run | Debug
    public static void main(String[] args) {
        Lingkaran obj1 = new Lingkaran();
        obj1.phi = 3.14;
        obj1.r = 14;

        System.out.println("Luas Lingkaran adalah       : " + obj1.hitungLuas(obj1.phi, obj1.r));
        System.out.println("Keliling Lingkaran adalah   : " + obj1.hitungKeliling(obj1.phi, obj1.r));
    }

}
```

Output

```
Luas Lingkaran adalah      : 615.44
Keliling Lingkaran adalah  : 87.92
```

Praktikum 4

Barang.java

```java
/*
|_____
| Barang Class
|_____
|
| Create Barang Class.
| @author Yudas Malabi
|
*/
public class Barang {

    public String kode;
    public String namaBarang;
    public int hargaDasar;
    public float diskon;

    public int hitungHargaJual(float diskon, int hargaDasar) {
        return (int) (hargaDasar - (diskon / 100 * hargaDasar));
    }

    public void tampilData() {
        System.out.println("Kode            : " + this.kode);
        System.out.println("Nama Barang     : " + this.namaBarang);
        System.out.println("Harga Dasar     : " + this.hargaDasar);
        System.out.println("Diskon          : " + this.diskon);
        System.out.println("Harga Jual      : " + this.hitungHargaJual(this.diskon, this.hargaDasar));
    }
}
```
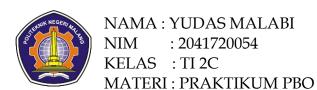
NAMA : YUDAS MALABI
NIM : 2041720054
KELAS : TI 2C
MATERI : PRAKTIKUM PBO

Main.java

```java
/*
┌
| Main Class
├
|
| Create Main Class.
| @author Yudas Malabi
|
*/
public class Main {

    Run | Debug
    public static void main(String[] args) {

        Barang obj1 = new Barang();
        obj1.kode = "G531GT";
        obj1.namaBarang = "ROG Strix";
        obj1.hargaDasar = 18000000;
        obj1.diskon = 10f;
        obj1.tampilData();

    }

}
```

Output

```
Kode               : G531GT
Nama Barang        : ROG Strix
Harga Dasar        : 18000000
Diskon             : 10.0
Harga Jual         : 16200000
```