Jobsheet OOP 7

Oleh :

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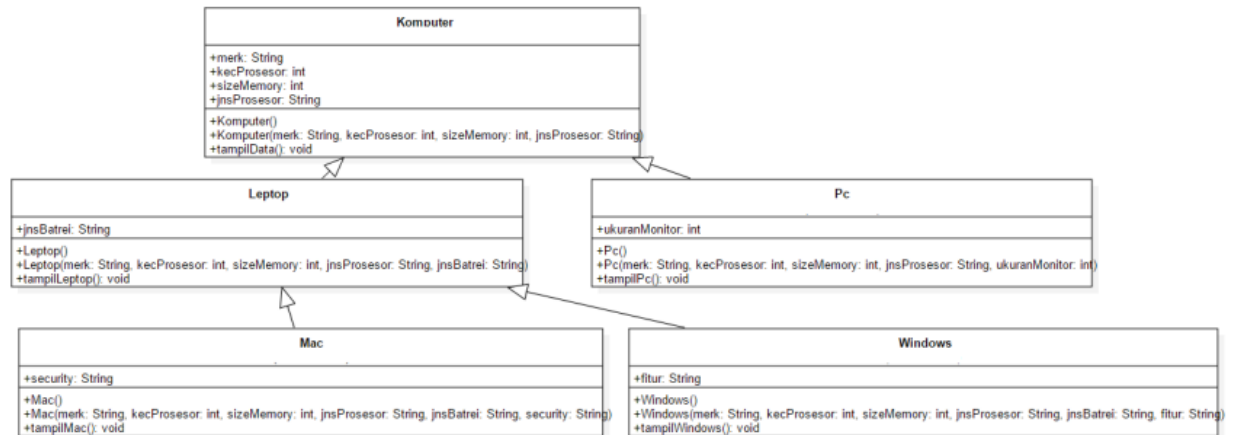
CLASS   : 2I

NO.ABSENT: 14

Major   : Information Technology

STUDY PROGRAM   : Information Engineering

5. TUGAS

1. Buatlah sebuah program dengan konsep pewarisan seperti pada class diagram berikut ini. Kemudian buatlah instansiasi objek untuk menampilkan data pada class Mac, Windows dan Pc!.

Komputer

+merk: String
+kecProsesor: int
+sizeMemory: int
+jnsProsesor: String

+Komputer()
+Komputer(merk: String, kecProsesor: int, sizeMemory: int, jnsProsesor: String)
+tampilData(): void

Leptop

+jnsBatrei: String

+Leptop()
+Leptop(merk: String, kecProsesor: int, sizeMemory: int, jnsProsesor: String, jnsBatrei: String)
+tampilLeptop(): void

Pc

+ukuranMonitor: int

+Pc()
+Pc(merk: String, kecProsesor: int, sizeMemory: int, jnsProsesor: String, ukuranMonitor: int)
+tampilPc(): void

Mac

+security: String

+Mac()
+Mac(merk: String, kecProsesor: int, sizeMemory: int, jnsProsesor: String, jnsBatrei: String, security: String)
+tampilMac(): void

Windows

+fitur: String

+Windows()
+Windows(merk: String, kecProsesor: int, sizeMemory: int, jnsProsesor: String, jnsBatrei: String, fitur: String)
+tampilWindows(): void

```java
class Komputer{
    String merk;
    int kecProsesor;
    int sizeMemory;
    String jnsProsesor;

    public Komputer(){

    }

    public Komputer(String merk,int kecProsesor,int sizeMemory,String jnsProsesor){
        this.merk = merk;
        this.kecProsesor = kecProsesor;
        this.sizeMemory = sizeMemory;
        this.jnsProsesor = jnsProsesor;
    }

    public void tampilData(){

    }

}
```

```java
class Leptop extends Komputer{
    String jnsBatrei;

    Leptop(){

    }

    Leptop(String merk,int kecProsesor,int sizeMemory,String jnsProsesor,String jnsBatrei ){
        this.merk = merk;
        this.kecProsesor = kecProsesor;
        this.sizeMemory = sizeMemory;
        this.jnsProsesor = jnsProsesor;
        this.jnsBatrei = jnsBatrei;
    }

    void tampilLeptop(){

    }

}
```

```java
class Pc extends Komputer{
    int ukuranMonitor;

    Pc(){

    }

    Pc(String merk,int kecProsesor, int sizeMemory,String jnsProsesor,int ukuranMonitor){
        this.merk = merk;
        this.kecProsesor = kecProsesor;
        this.sizeMemory = sizeMemory;
        this.jnsProsesor = jnsProsesor;
        this.ukuranMonitor = ukuranMonitor;
    }
}
```

```java
class Mac extends Leptop{
    String security;

    Mac(){

    }

    Mac(String merk,int kecProsesor,int sizeMemory,String jnsProsesor,String jnsBatrei,String security){
        this.merk = merk;
        this.kecProsesor = kecProsesor;
        this.sizeMemory = sizeMemory;
        this.jnsProsesor = jnsProsesor;
        this.jnsBatrei = jnsBatrei;
        this.security = security;
    }

    void tampilMac(){

    }
}
```

```java
class Windows extends Leptop{
    String fitur;

    Windows(){

    }
    Windows(String merk,int kecProsesor,int sizeMemory,String jnsProsesor,String jnsBatrei,String fitur){
        this.merk = merk;
        this.kecProsesor = kecProsesor;
        this.sizeMemory = sizeMemory;
        this.jnsProsesor = jnsProsesor;
        this.jnsBatrei = jnsBatrei;
        this.fitur = fitur;
    }

    void tampilWindows(){

    }
}
```

```java
public class Main {
    public static void main(String[] args) {
        // Membuat objek Mac
        Mac mac = new Mac("MacBook Pro", 2500, 16, "Intel Core i7", "Lithium Polymer", "Touch ID & T2 Security");

        // Membuat objek Windows
        Windows windows = new Windows("Dell XPS", 2200, 8, "Intel Core i5", "Lithium Ion", "Windows Hello Facial Recognition");

        // Membuat objek Pc
        Pc pc = new Pc("HP Pavilion", 3000, 32, "AMD Ryzen 7", 27);

        // Menampilkan data untuk Mac
        System.out.println("Data Mac:");
        mac.tampilData();
        mac.tampilMac();
        System.out.println("Security: " + mac.security);

        // Menampilkan data untuk Windows
        System.out.println("\nData Windows:");
        windows.tampilData();
        windows.tampilWindows();
        System.out.println("Fitur: " + windows.fitur);

        // Menampilkan data untuk Pc
        System.out.println("\nData PC:");
        pc.tampilData();
        System.out.println("Ukuran Monitor: " + pc.ukuranMonitor + " inch");
    }
}
```