PRAKTIKUM PEMROGRAMAN BERBASIS OBJEK

UTS

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PROGRAM STUDI TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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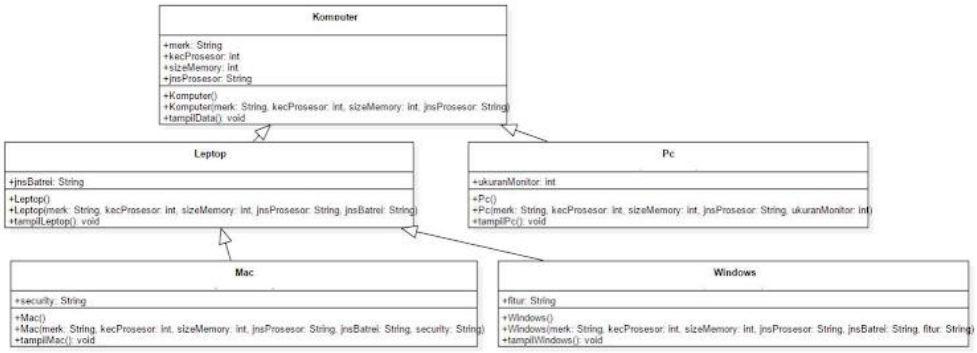
A. UML



B. Code

Komputer

```
public class Komputer {

    private String merk, jnsProsesor;

    private int kecProsesor, sizeMemory;


    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() {

        System.out.println("Merk: " + merk);

        System.out.println("Kecepatan Prosesor: " + kecProsesor);

        System.out.println("Ukuran Memory: " + sizeMemory);

        System.out.println("Jenis Prosesor: " + jnsProsesor);

    }
}
```

Laptop

```
public class Laptop extends Komputer {
```

```
    private String jnsBaterai;


    public Laptop() {


    }


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


    public void tampilLaptop() {
        tampilData();
        System.out.println("Jenis Baterai: " + jnsBaterai);
    }
}
```

PC

```
public class PC extends Komputer {
    private int ukuranMonitor;


    public PC() {


    }


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


    public void tampilPC() {
        tampilData();
        System.out.println("Ukuran Monitor: " + ukuranMonitor);
    }
}
```

Mac

```
public class Mac extends Laptop {

    private String security;


    public Mac() {


    }


    public Mac(String merk, int kecProsesor, int sizeMemory, String
jnsProsesor, String jnsBaterai, String security) {

        super(merk, kecProsesor, sizeMemory, jnsProsesor,
jnsBaterai);

        this.security = security;

    }


    public void tampilMac() {

        tampilLaptop();

        System.out.println("Security: " + security);

    }

}
```

Windows

```
public class Windows extends Laptop {

    private String fitur;


    public Windows() {


    }


    public Windows(String merk, int kecProsesor, int sizeMemory,
String jnsProsesor, String jnsBaterai, String fitur) {

        super(merk, kecProsesor, sizeMemory, jnsProsesor,
jnsBaterai);

        this.fitur = fitur;

    }


    public void tampilWindows() {

        tampilLaptop();
```

```
        System.out.println("Fitur: " + fitur);
    }
}
```

Main

```
public class Main {
    public static void main(String[] args) {
        Komputer kom = new Komputer("LG", 5, 8, "Intel i2");
        Laptop lp = new Laptop("Asus", 10, 16, "Ryzen3", "Lithium-
polymer");
        PC pc = new PC("Dell", 6, 32, "Intel i3", 20);
        Mac mac = new Mac("Apple", 12, 64, "Ryzen 5", "Lithium-ion",
"Face ID");
        Windows win = new Windows("MSI", 12, 32, "Intel Celeron",
"NIkel", "Wireless");

        kom.tampilData();
        System.out.println();

        lp.tampilLaptop();
        System.out.println();

        pc.tampilPC();
        System.out.println();

        mac.tampilMac();
        System.out.println();

        win.tampilWindows();
    }
}
```

C. Output

```
Merk: LG
Kecepatan Prosesor: 5
Ukuran Memory: 8
Jenis Prosesor: Intel i2

Merk: Asus
Kecepatan Prosesor: 10
Ukuran Memory: 16
Jenis Prosesor: Ryzen3
Jenis Baterai: Lithium-polymer

Merk: Dell
Kecepatan Prosesor: 6
Ukuran Memory: 32
Jenis Prosesor: Intel i3
Ukuran Monitor: 20

Merk: Apple
Kecepatan Prosesor: 12
Ukuran Memory: 64
Jenis Prosesor: Ryzen 5
Jenis Baterai: Lithium-ion
Security: Face ID

Merk: MSI
Kecepatan Prosesor: 12
Ukuran Memory: 32
Jenis Prosesor: Intel Celeron
Jenis Baterai: NIkel
Fitur: Wireless
```