Jobsheet 6(2)

Subject	Object Oriented Programming
Lecturer	Vipkas Al Hadid Firdaus S.T. M.T.
Type	Assignment
Semester	Semester 3
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questions 1

1. `karyawan` is superclass, and `manager`, `staff` is subclass
2. to derive from one class to other class, we can use `extend`
3. `karyawan` only has one attribute, `tunjangan` but also take another attribute from another class, `gaji` and `tunjangan`
4. `super` is used to call the attribute that is comes from the super class, which in this case is `karyawan`
5. it's a hierarchical inheritance, where each of subclass has the same superclass

questions 2

1. `karyawan` is single inheritance, while `staff` is multilevel inheritance
2. the original attributes are `golongan`, `asuransi`, `jmlJamKerja`, while the inherited attributes are `nama`, `alamat`, `jk`, `umur`, `gaji`, `lembur`, `potongan`
3. it's used to get the attributes from the super class
4. it's used to call the `tampilanDataStaff()` method from the super class
5. because we have inherited the super class to the `stafftetap` using extend

task

```
package task;

public class Komputer {
    String merk, jnsProsesor;
    int kecProsesor, sizeMemory;

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

```
        this.sizeMemory = sizeMemory;
    }

    Komputer() {

    }

    void tampilData() {
        System.out.println("Merk : " + merk);
        System.out.println("Jenis Prosesor : " + jnsProsesor);
        System.out.println("Kecepatan Prosesor : " + kecProsesor);
        System.out.println("Size Memory : " + sizeMemory);
    }
}
```

```
package task;

public class Leptop extends Komputer{
    String jnsBatrei;

    Leptop() {

    }

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

    void tampilLeptop() {
        System.out.println("Merk : " + merk);
        System.out.println("Jenis Prosesor : " + jnsProsesor);
        System.out.println("Kecepatan Prosesor : " + kecProsesor);
        System.out.println("Size Memory : " + sizeMemory);
        System.out.println("Jenis Batrei : " + jnsBatrei);
    }
}
```

```
package task;

public class Mac extends Leptop{
    String security;

    Mac() {

    }

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

    void tampilMac() {
        super.tampilLeptop();
        System.out.println("Security : " + security);
```

```
    }
}
```

```
package task;

public class Pc extends Komputer {
    int ukuranMonitor;

    Pc() {

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


    void tampilPc() {
        System.out.println("Merk : " + merk);
        System.out.println("Jenis Prosesor : " + jnsProsesor);
        System.out.println("Kecepatan Prosesor : " + kecProsesor);
        System.out.println("Size Memory : " + sizeMemory);
        System.out.println("Ukuran Monitor : " + ukuranMonitor);
    }
}
```

```
package task;

public class Windows extends Leptop{
    String fitur;

    Windows() {

    }

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

    void tampilWindows() {
        super.tampilLeptop();
        System.out.println("Fitur : " + fitur);
    }
}
```

```
package task;

public class Main {
    public static void main(String[] args) {
        Pc pc = new Pc("Asus", "i7", 12, 16, 27);
        pc.tampilPc();
        Windows windows = new Windows("Lenovo", "i7", 4, 16, "Li-po 52wh", "Gaming");
        windows.tampilWindows();
        Mac mac = new Mac("Apple", "i7", 4, 16, "Li-po 78wh", "Very secure");
```

```
        mac.tampilMac();
    }
}
```