Subject :
    - Inheritance

Objective :
   o Memahami Inheritance

Tugas praktikum :

Praktikum Soal 1

    1. Buatlah <u>folder soal1</u> didalam folder sesi8.
    2. Buatlah <u>folder main</u> dan <u>folder model</u> didalam folder soal1.
    3. Buatlah file Person.java didalam folder model.
    4. Edit file Person.java dengan sintaks seperti dibawah ini :

```java
package model;

import java.util.Date;

public class Person {
    private String nama;
    private String alamat;
    private String noHp;
    private Date tglLahir;

    public String getAlamat() {
        return alamat;
    }

    public void setAlamat(String alamat) {
        this.alamat = alamat;
    }

    public String getNama() {
        return nama;
    }

    public void setNama(String nama) {
        this.nama = nama;
    }

    public String getNoHp() {
        return noHp;
    }

    public void setNoHp(String noHp) {
        this.noHp = noHp;
    }
```

```
        public Date getTglLahir() {
            return tglLahir;
        }

        public void setTglLahir(Date tglLahir) {
            this.tglLahir = tglLahir;
        }

}
```

5. Buatlah file Student.java didalam folder model.
6. Edit file Student.java dengan sintaks seperti di bawah ini :

```
package model;

public class Student extends Person{
        private String nim;

        public String getNim() {
            return nim;
        }

        public void setNim(String nim) {
            this.nim = nim;
        }

}
```

7. Buatlah file Employee.java didalam folder model.
8. Edit file Employee.java dengan sintaks seperti di bawah ini :

```
package model;

public class Employee extends Person{
        private String nip;

        public String getNip() {
            return nip;
        }

        public void setNip(String nip) {
            this.nip = nip;
        }

}
```

9. Buatlah file InheritanceMain.java didalam folder main.
10. Edit file InheritanceMain.java dengan sintaks seperti di bawah ini :

```java
package main;

import java.text.ParseException;
import java.text.SimpleDateFormat;
import model.Employee;
import model.Student;

public class InheritanceMain {

    public static void main(String[] args) throws
    ParseException {
        Student s = new Student();
        s.setNim("12101011");
        s.setNama("Dadang Iswanto");
        s.setAlamat("Jl. Taman Bunga No. 2");
        s.setTglLahir(new SimpleDateFormat("dd-MM-yyyy").parse
        ("20-06-1990"));
        s.setNoHp("081122334455");

        Employee e = new Employee();
        e.setNip("21100989");
        e.setNama("Adi Sulistiono");
        e.setAlamat("Jl. Asem Jajar No. 6");
        e.setTglLahir(new SimpleDateFormat("dd-MM-yyyy").parse
        ("13-06-1986"));
        e.setNoHp("085210831766");

        showData(s);
        System.out.println("\n=========================\n");
        showData(e);
    }

    static void showData(Student s){
        System.out.println("Class Student");
        System.out.println("NIM : " + s.getNim());
        System.out.println("Nama : " + s.getNama());
        System.out.println("Alamat : " + s.getAlamat());
        System.out.println("Tgl Lahir : " + new
        SimpleDateFormat("dd MMMMM yyyy").format
        (s.getTglLahir()));
        System.out.println("No HP : " + s.getNoHp());
    }

    static void showData(Employee e){
        System.out.println("Class Employee");
        System.out.println("NIP : " + e.getNip());
        System.out.println("Nama : " + e.getNama());
        System.out.println("Alamat : " + e.getAlamat());
        System.out.println("Tgl Lahir : " + new
        SimpleDateFormat("dd MMMMM yyyy").format
```

```
        (e.getTglLahir()));
        System.out.println("No HP : " + e.getNoHp());
    }
}
```

11. Buka ComandPrompt, masuk terlebih dahulu ke directory soal1 menggunakan perintah `cd`.

12. Compile file InheritanceMain.java dari dari directory soal1 menggunakan perintah seperti di bawah ini :

    ```
    $ javac -cp ./;. main/InheritanceMain.java
    ```

13. Setelah compilasi berhasil, running file InheritanceMain.java menggunakan perintah seperti di bawah ini :

    ```
    $ java -cp ./;. main/InheritanceMain
    ```

14. Setelah running berhasil, selanjutnya lihatlah hasil running dan akan menampilkan hasil seperti di bawah ini :

    ```
    Class Student
    NIM : 12101011
    Nama : Dadang Iswanto
    Alamat : Jl. Taman Bunga No. 2
    Tgl Lahir : 20 June 1990
    No HP : 081122334455

    ========================

    Class Employee
    NIP : 21100989
    Nama : Adi Sulistiono
    Alamat : Jl. Asem Jajar No. 6
    Tgl Lahir : 13 June 1986
    No HP : 085210831766
    ```