16TIN2054 – Teknik Pemrograman Praktek

Week 7



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1AD4 Jurusan Teknik Komputer dan Informatika

Tugas ini dikumpulkan untuk memenuhi sebagian persyaratan kelulusan mata kuliah Teknik Pemrograman Praktek

Program Studi D4 Teknik Informatika

Jurusan Teknik Komputer dan Informatika

Politeknik Negeri Bandung

2020/2021

Latihan 7.1

Animal.java

```
package Latihan7_1;

public class Animal {
        public void sound() {
             System.out.println("Animal is making a sound");
        }
}
```

Cat.java

```
package Latihan7_1;

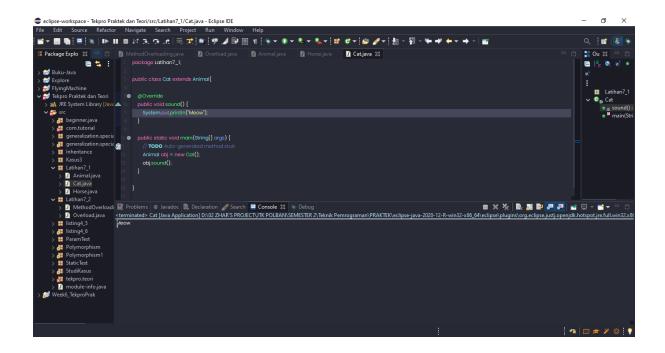
public class Cat extends Animal{

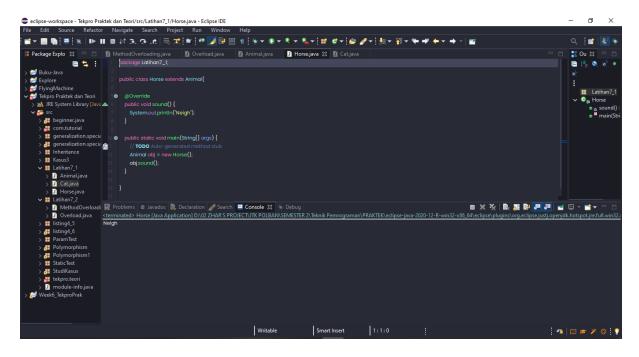
    @Override
    public void sound() {
        System.out.println("Meow");
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Animal obj = new Cat();
        obj.sound();
    }
}
```

Horse.java

Screenshoot Program



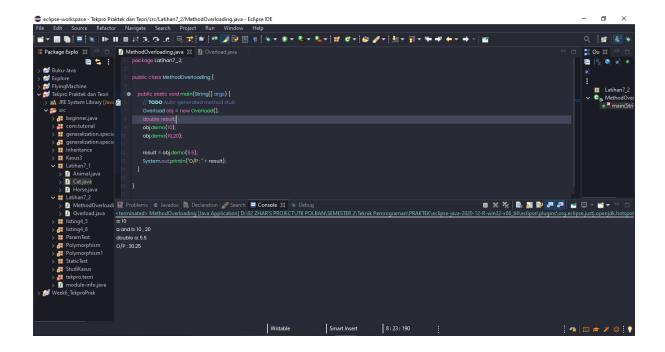


Latihan 7.2

Overload.java

MethodOverloading.java

Screenshoot Program



Latihan 7.3

Commission.java

```
package Polymorphism;
public class Commission extends Hourly{
        private double totalSales;
        private double commissionRate;
        public Commission (String eName, String eAddress, String ePhone, String socSecNumber, double rate,
double commssionRate) {
                 super(eName,eAddress,ePhone,socSecNumber,rate);
                 this.commissionRate = commissionRate;
        public void addSales(double totalSales) {
                 this.totalSales = totalSales;
        public double pay() {
                 double payment = super.pay() + totalSales*commissionRate;
                 totalSales = 0;
                 return payment;
        public String toString() {
                 String result = super.toString();
                 result += "\nTotal Sales:" + totalSales;
```

```
return result;
}
}
```

Employee.java

Executive.java

```
}
}
```

Hourly.java

```
package Polymorphism;
public class Hourly extends Employee{
        private int hoursWorked;
        public Hourly(String eName, String eAddress, String ePhone,
                          String socSecNumber, double rate) {
                 super(eName, eAddress, ePhone, socSecNumber, rate);
                 hoursWorked = 0;
        public void addHours(int moreHours) {
                 hoursWorked += moreHours;
        public double pay() {
                 double payment = payRate * hoursWorked;
                 hoursWorked = 0;
                 return payment;
        public String toString() {
                 String result = super.toString();
                 result += "\nCurrent hours: " + hoursWorked;
                 return result;
```

Staff.java

```
staffList[4] = new Volunteer("Norm","987 Suds Blvd.","555-8374");
        staffList[5] = new Volunteer("Cliff","321 Duds Lane","555-7282");
        staffList[6] = new Commission("Azhar","456 JurangStreet","555-423","33-111-444",6.25,.2);
        staffList[7] = new Commission("Azizan","456 JurangStreet","222-4445","459-222-33",9.75,.15);
        ((Executive) staffList[0]).awardBonus(500.00);
        ((Hourly)staffList[3]).addHours(40);
        ((Commission)staffList[6]).addHours(45);
        ((Commission)staffList[6]).addSales(400);
        ((Commission)staffList[7]).addHours(40);
        ((Commission)staffList[7]).addSales(950);
public void payday() {
         double amount;
         for(int count = 0; count < staffList.length; count++) {</pre>
                  System.out.println(staffList[count]);;
                  amount = staffList[count].pay();
                  if(amount == 0.0)
                           System.out.println("Thanks!");
                           System.out.println("Paid: " + amount);
                  System.out.println("----");
```

StaffMember.java

```
package Polymorphism;

abstract public class StaffMember {
    protected String name;
    protected String address;
    protected String phone;

public StaffMember(String eName, String eAddress, String ePhone) {
        name = eName;
        address = eAddress;
        phone = ePhone;
    }

public String toString() {
        String result = "Name: " + name + "\n";
        result += "Address: " + address + "\n";
        result += "Phone : " + phone;
```

```
return result;
}

public abstract double pay();
}
```

Volunteer.java

```
package Polymorphism;

public class Volunteer extends StaffMember{
    public Volunteer(String eName, String eAddress, String ePhone) {
        super(eName, eAddress, ePhone);
    }

    public double pay() {
        return 0.0;
    }
}
```

Firm.java

Screenshoot Program

