Tugas Praktikum 10

Polimorfisme



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**Exercise 1**

Pegawai.java

public class Pegawai {

private String nama;

private int gaji;

public Pegawai() {}

public Pegawai(String nama, int gaji) {

this.nama = nama;

this.gaji = gaji;

}

public int getGaji() {

return gaji;

}

}

Manajer.java

public class Manajer extends Pegawai {

private int tunjangan;

public Manajer(String nama, int gaji, int tunjangan) {

super(nama, gaji);

this.tunjangan = tunjangan;

}

public int getGaji() {

return super.getGaji();

}

public int getTunjangan() {

return tunjangan;

}

}

Programmer.java

public class Programmer extends Pegawai{

private int bonus;

public Programmer(String nama, int gaji, int bonus) {

super(nama, gaji);

this.bonus = bonus;

}

public int getGaji() {

return super.getGaji();

}

public int getBonus() {

return bonus;

}

}

Bayaran.java

public class Bayaran {

public int hitungBayaran(Pegawai pg) {

int uang = pg.getGaji();

if (pg instanceof Manajer) {

uang += ((Manajer)pg).getTunjangan();

} else if (pg instanceof Programmer) {

uang += ((Programmer)pg).getBonus();

}

return uang;

}

}

Output:



**Exercise 2**

Elektronik.java

public class Elektronik {

private int voltase;

public Elektronik(int voltase) {

this.voltase = voltase;

}

public int getVoltase() {

return voltase;

}

}

TelevisiJadul.java

public class TelevisiJadul extends Elektronik{

private String modelInput;

public TelevisiJadul(int voltase, String modelInput) {

super(voltase);

this.modelInput = modelInput;

}

public String getModelInput() {

return "Nyalakan televisi jadul dengan input: " + modelInput;

}

}

TelevisiModern.java

public class TelevisiModern extends Elektronik{

private String modelInput;

public TelevisiModern(int voltase, String modelInput) {

super(voltase);

this.modelInput = modelInput;

}

public String getModelInput() {

return "Nyalakan televisi modern dengan input: " + modelInput;

}

}

Manusia.java

public class Manusia {

public void nyalakanPerangkat (Elektronik perangkat) {

if (perangkat instanceof TelevisiModern) {

System.out.println(((TelevisiModern) perangkat).getModelInput());

System.out.println("Voltase televisi: " + perangkat.getVoltase());

} else if (perangkat instanceof TelevisiJadul) {

System.out.println(((TelevisiJadul) perangkat).getModelInput());

System.out.println("Voltase televisi: " + perangkat.getVoltase());

}

}

}

Output:

