1. Exercise 1

Class Pegawai

public class Pegawai {

protected String nama;

protected int gaji;

public Pegawai(){

}

public Pegawai(String nama, int gaji) {

this.nama = nama;

this.gaji = gaji;

}

public int getGaji() {

return gaji;

}

}

Class manajer

public class Manajer extends Pegawai{

private final int tunjangan;

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

super(nama, gaji);

this.tunjangan=tunjangan;

}

@Override

public int getGaji() {

return gaji;

}

public int getTunjangan() {

return tunjangan;

}

}

Class programmer

public class Programmer extends Pegawai{

private final int bonus;

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

super(nama, gaji);

this.bonus = bonus;

}

public int getBonus() {

return bonus;

}

@Override

public int getGaji() {

return gaji;

}

}

Class Bayaran

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;

}

}

Class TestBayaran

public class TestBayaran {

public static void main(String[] args) {

Manajer man = new Manajer("Agus", 800, 50);

Programmer prog = new Programmer("Budi", 600, 30);

Bayaran hr = new Bayaran();

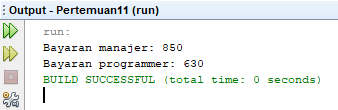
System.out.println("Bayaran manajer: "+hr.hitungBayaran(man));

System.out.println("Bayaran programmer: "+hr.hitungBayaran(prog));

}

}

Hasilnya



1. Exercise 2

Class Elektronik

public class Elektronik {

protected int voltase;

public Elektronik(int voltase) {

this.voltase = voltase;

}

public int getVoltase() {

return voltase;

}

}

Class TelevisiJadul

public class TelevisiJadul extends Elektronik{

private final String modelInput;

public TelevisiJadul(String modelInput, int voltase) {

super(voltase);

this.modelInput = modelInput;

}

public String getModelInput() {

return modelInput;

}

}

Class TelevisiModern

ublic class TelevisiModern extends Elektronik{

private final String modelInput;

public TelevisiModern(String modelInput, int voltase) {

super(voltase);

this.modelInput = modelInput;

}

public String getModelInput() {

return modelInput;

}

}

Class Manusia

public class Manusia{

public void nyalakanPerangkat(Elektronik perangkat) {

Elektronik prkt = perangkat;

if (perangkat instanceof TelevisiJadul) {

System.out.println("Nyalakan televisi jadul dengan input: "+((TelevisiJadul)prkt).getModelInput());

}

else if (perangkat instanceof TelevisiModern) {

System.out.println("Nyalakan televisi jadul dengan input: "+((TelevisiModern)prkt).getModelInput());

}

System.out.println("Voltase televisi: "+prkt.voltase);

}

}

Class TestElektronik

public class TestElektronik {

public static void main(String[] args) {

Manusia indro = new Manusia();

TelevisiJadul tvJadul = new TelevisiJadul("DVI", 220);

TelevisiModern tvModern = new TelevisiModern("HDMI", 220);

indro.nyalakanPerangkat(tvJadul);

indro.nyalakanPerangkat(tvModern);

}

}

Hasilnya

