|  |
| --- |
| **2019년 10월 02일 실습보고서** |
| **학번 : 201810754, 이름 : 조윤직** |
| **실습자료 1 : [TV클래스 생성자],** |
| **소스코드** |
| TestMain.java  package java\_0930;  import java.util.Scanner;  import java\_0930.TV;  public class TestMain {  public static void lab01() {  TV tele =new TV(12,20);    tele.powerOnOff();  tele.ShowStatus();    TV tee =new TV(20);  tee.powerOnOff();  tee.ShowStatus();  }    public static void main(String[] args) {  // **TODO** Auto-generated method stub  System.***out***.println("201810754 조윤직");  *lab01*();  }  }  TV.java  package java\_0930;  public class TV {  public boolean power =false ;  public int chanel; //멤버 초기화  public int volume;  public TV() {  chanel =10 ; //멤버 초기화  volume =10;  }  public TV(int channel,int Volume) {  this.chanel =channel;  this.volume =Volume;  }  public TV(int channel) {  this.chanel =channel;  this.volume =10;  }    public void powerOnOff() {  power =!power;  if(power)  System.***out***.println("TV 켜짐");  else  System.***out***.println("TV 꺼짐");  }    public void channelUp() {  if(power) {  chanel++;  ShowStatus();  }    }  public void channelDown() {  if(power) {  chanel--;  ShowStatus();  }  }  public void ShowStatus() {  if(power) {  System.***out***.println("현재 TV 채널 : "+chanel+ " TV 볼륨 : "+volume);  }    }  public void volumeUp() {  if(power) {  volume++;  ShowStatus();  }    }  public void volumeDown() {  if(power) {  volume--;  ShowStatus();  }  }  } |
| **실행결과** |
|  |
| **실습자료 2 : [자동차 클래스],** |
| **소스코드** |
| //TestMain.java  package java\_0930;  import java.util.Scanner;  import java\_0930.TV;  import java\_0930.Vehicle;  public class TestMain {  public static void lab02() {  Vehicle car1 =new Vehicle();  car1.move();  car1.accelerate(12);  car1.move();  car1.break\_(5);  car1.move();  }      public static void main(String[] args) {  // **TODO** Auto-generated method stub  System.***out***.println("201810754 조윤직");  *lab02*();  }  }  //class Vehicle.java  package java\_0930;  public class Vehicle {  String color;  int speed = 0;  char gearStatus = 'P';    Vehicle(){  this("검은색");  }  Vehicle(String color){  this.color = color;  }    public void accelerate(int s) {  this.speed +=s;  System.***out***.println(s+"만큼 속도 증가, 지금 속도 : "+speed);  }  public void break\_(int b) {  this.speed -=b;  System.***out***.println(b+"만큼 속도 감소, 지금 속도 : "+speed);  }  public void move() {  if(speed != 0)  System.***out***.println(color+"의 자동차 "+ gearStatus + "상태로 "+speed+"속도 운행중");  else  System.***out***.println(color+"의 자동차 정차 중");  }  public void changeGear(char g) {  this.gearStatus =g;  System.***out***.println("차량기어를 바꿉니다,현재 차량 기어 : "+gearStatus);  }  } |
| **실행결과** |
|  |
| **실습자료 3 : [caruser클래스],** |
| **소스코드** |
| //CarUser.java  package java\_0930;  import java\_0930.Vehicle;  public class CarUser {  String name;    CarUser(){  this("user");  }  CarUser(String name){  this.name =name;  }  public void accelerate(Vehicle car,int s) {  System.***out***.println(name+"가 차를 가속합니다.");  car.accelerate(s);  }  public void move(Vehicle car) {  System.***out***.println(name+"가 차를 움직입니다.");  car.move();  }  public void changeGear(Vehicle car,char g) {  System.***out***.println(name+"가 기어를 바꿉니다");  car.changeGear(g);  }  }  //Vehicle은 2번과 동일  //testmain.java  package java\_0930;  import java.util.Scanner;  import java\_0930.TV;  import java\_0930.Vehicle;  import java\_0930.CarUser;  public class TestMain {    public static void lab03() {  Vehicle car1 =new Vehicle("파랑색");  CarUser user1 =new CarUser("HY");  user1.accelerate(car1, 12);  user1.changeGear(car1, 'D');  user1.move(car1);  }      public static void main(String[] args) {  // **TODO** Auto-generated method stub  System.***out***.println("201810754 조윤직");  *lab03*();  }  } |
| **실행결과** |
|  |
| **실습자료 4 : [객체 배열 생성, 사용],** |
| **소스코드** |
| //Vehicle.java,CarUser.java는 2,3번과 동일  //testMain.java  package java\_0930;  import java.util.Scanner;  import java\_0930.TV;  import java\_0930.Vehicle;  import java\_0930.CarUser;  public class TestMain {    public static void lab04() {  Vehicle [] vehicles =new Vehicle[5];  vehicles[0] =new Vehicle("빨강색");  vehicles[1] =new Vehicle("파랑색");  vehicles[2] =new Vehicle("노랑색");  vehicles[3] =new Vehicle("보라색");    CarUser user1 =new CarUser("HY");  for(int i=0;i<4;i++) {  user1.accelerate(vehicles[i], i+10);  user1.move(vehicles[i]);  }    }    public static void main(String[] args) {  // **TODO** Auto-generated method stub  System.***out***.println("201810754 조윤직");  *lab04*();  }  } |
| **실행결과** |
|  |