**Class:**

package lab\_6;

/\*\*

\*

\* @author gawitt

\*/

public class Appliance {

private String name;

private String location;

private boolean on;

private double value;

Appliance(){}

//no argurmentn constructor

Appliance(String a, String b, boolean c, double value){

name = a;

location = b;

on = c;

this.value = value;

}//construcor

// four argument contructor

public double getValue() {

return value;

}// Getter Value

public void setValue(double Value) {

this.value = Value;

}//Setter Value

public void turnOn(){

on = true;

}

//Void method with no arguments

public void turnOff(){

on = false;

}

//Void method with no arguments

@Override

public String toString(){

String resp = "Off";

if(on)

resp = "On";

String ans = "The " + name + " is located in the "

+ location + " and it is " + resp;

return ans;

}// to String

public void display(){

System.out.println(" ");

System.out.println("========================");

System.out.println(" Name : " + name );

System.out.println(" Location: " + location);

System.out.println(" Status: " + on);

System.out.println(" Value: " + value);

System.out.println("========================");

System.out.println(" ");

}//display method

}//Class

**Client:**

package lab\_6;

/\*\*

\*

\* @author gawitt

\*/

public class Lab\_6 {

public static void main(String[] args) {

Appliance fan = new Appliance("Fan","TV room", false, 23.00);

fan.display();

System.out.println(fan);

// Fan Appliance

fan.turnOn();

System.out.println(fan);

//Turning the fan on.

Appliance tv = new Appliance("SonyTv","bedroom", true, 713.00);

tv.display();

System.out.println(tv);

//Tv appliance

tv.turnOff();

System.out.println(tv);

//Turning the Tv off.

Appliance airConditioner = new Appliance("AC","Tv room", false, 313.00);

airConditioner.display();

System.out.println(airConditioner);

//Airconditioner status

airConditioner.turnOn();

System.out.println(airConditioner);

}//main

}//class

**Runtime:**

run:

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

Name : Fan

Location: TV room

Status: false

Value: 23.0

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

The Fan is located in the TV room and it is Off

The Fan is located in the TV room and it is On

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

Name : SonyTv

Location: bedroom

Status: true

Value: 713.0

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

The SonyTv is located in the bedroom and it is On

The SonyTv is located in the bedroom and it is Off

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

Name : AC

Location: Tv room

Status: false

Value: 313.0

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

The AC is located in the Tv room and it is Off

The AC is located in the Tv room and it is On

BUILD SUCCESSFUL (total time: 0 seconds)