using System;

namespace ConsoleApp5

{

public interface LEDTV

{

void SwitchOn();

void SwitchOff();

void SetChannel(int channelNumber);

}

public class SamsungLedTv : LEDTV

{

public void SwitchOn()

{

Console.WriteLine("Turning ON : Samsung TV");

}

public void SwitchOff()

{

Console.WriteLine("Turning OFF : Samsung TV");

}

public void SetChannel(int channelNumber)

{

Console.WriteLine("Setting channel Number " + channelNumber + " on Samsung TV");

}

}

public class SonyLedTv : LEDTV

{

public void SwitchOn()

{

Console.WriteLine("Turning ON : Sony TV");

}

public void SwitchOff()

{

Console.WriteLine("Turning OFF : Sony TV");

}

public void SetChannel(int channelNumber)

{

Console.WriteLine("Setting channel Number " + channelNumber + " on Sony TV");

}

}

public abstract class AbstractRemoteControl

{

protected LEDTV ledTv;

protected AbstractRemoteControl(LEDTV ledTv)

{

this.ledTv = ledTv;

}

public abstract void SwitchOn();

public abstract void SwitchOff();

public abstract void SetChannel(int channelNumber);

}

public class SamsungRemoteControl : AbstractRemoteControl

{

public SamsungRemoteControl(LEDTV ledTv) : base(ledTv)

{

}

public override void SwitchOn()

{

ledTv.SwitchOn();

}

public override void SwitchOff()

{

ledTv.SwitchOff();

}

public override void SetChannel(int channelNumber)

{

ledTv.SetChannel(channelNumber);

}

}

public class SonyRemoteControl : AbstractRemoteControl

{

public SonyRemoteControl(LEDTV ledTv) : base(ledTv)

{

}

public override void SwitchOn()

{

ledTv.SwitchOn();

}

public override void SwitchOff()

{

ledTv.SwitchOff();

}

public override void SetChannel(int channelNumber)

{

ledTv.SetChannel(channelNumber);

}

}

class Program

{

static void Main(string[] args)

{

SonyRemoteControl sonyRemoteControl = new SonyRemoteControl(new SonyLedTv());

sonyRemoteControl.SwitchOn();

sonyRemoteControl.SetChannel(101);

sonyRemoteControl.SwitchOff();

Console.WriteLine();

SamsungRemoteControl samsungRemoteControl = new SamsungRemoteControl(new SamsungLedTv());

samsungRemoteControl.SwitchOn();

samsungRemoteControl.SetChannel(202);

samsungRemoteControl.SwitchOff();

Console.ReadKey();

}

}

}