现代操作系统应用开发实验报告

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一. 参考资料

无

二. 实验步骤

本次实验较简单，直接贴关键代码：

```csharp
private void Button_Click(object sender, RoutedEventArgs e)
{
    textBox.Text = "";
    Random ran = new Random();
    int RandKey = ran.Next(0, 3);

    if(RandKey == 0)
    {
        c = new cat(words);

        Say += new AnimalSaying(c.saying);
    }
    else if(RandKey == 1)
    {
        d = new dog(words);

        Say += new AnimalSaying(d.saying);
    }
    else
    {
        p = new pig(words);

        Say += new AnimalSaying(p.saying);
    }
    Say(this, new myEventArgs(times++));
    if (RandKey == 0) Say -= new AnimalSaying(c.saying);
    else if (RandKey == 1) Say -= new AnimalSaying(d.saying);
    else Say -= new AnimalSaying(p.saying);
}
```

```csharp
private void Button_Click_1(object sender, RoutedEventArgs e)
{
    if(textBox.Text == "cat")
    {
        c = new cat(words);
        Say += new AnimalSaying(c.saying);
        Say(this, new myEventArgs(times++));
        Say -= new AnimalSaying(c.saying);
        textBox.Text = "";
    }
    else if(textBox.Text == "dog")
    {
        d = new dog(words);
        Say += new AnimalSaying(d.saying);
        Say(this, new myEventArgs(times++));
        Say -= new AnimalSaying(d.saying);
        textBox.Text = "";
    }
    else if(textBox.Text == "pig")
    {
        p = new pig(words);
        Say += new AnimalSaying(p.saying);
        Say(this, new myEventArgs(times++));
        Say -= new AnimalSaying(p.saying);
        textBox.Text = "";
    }
    else
    {
        textBox.Text = "";
    }
}
```

三．实验结果截图

发言   pig: i am a pig
        dog: i am a dog
        dog: i am a dog
        pig: i am a pig
        dog: i am a dog

四．实验过程遇到的问题

 发现一开始 using system 都报错，只能更新了一下 windows 开发组件，然后又出现打不开 demo（提示项目须更新）但可以新建 c#项目并执行的问题。好迷，不过能用就好。

五．思考与总结

对于事件与委托的思考：

我的理解就是委托通过调用事件，来让事件替代自己执行，也算一层封装。