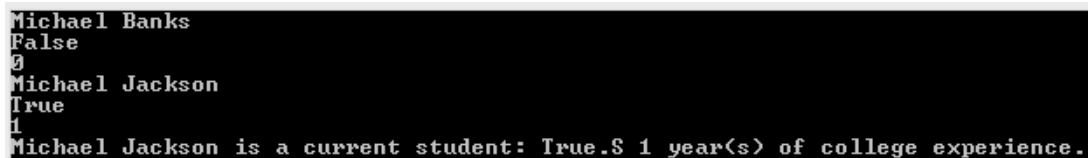


```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 /*
8  * Homework #1: Michael Banks
9  * This application demonstrates accessor and mutator properties as well as testing each method and
10 * This application also verifies each method and property works by checking the result using an if
11 */
12
13 namespace Homework_1
14 {
15     class Program
16     {
17         static void Main(string[] args)
18         {
19             Student Student1 = new Student("Michael Banks", false, 0);
20
21             Console.WriteLine(Student1.name);
22             Console.WriteLine(Student1.currStudent);
23             Console.WriteLine(Student1.classification);
24
25             Student1.name = "Michael Jackson";
26             if(Student1.name != "Michael Jackson")
27                 Console.WriteLine("Error! Name is incorrect!");
28             else
29                 Console.WriteLine(Student1.name);
30
31             Student1.currStudent = true;
32             if(Student1.currStudent != true)
33                 Console.WriteLine("Error! Current Student information is incorrect!");
34             else
35                 Console.WriteLine(Student1.currStudent);
36
37             Student1.classification = 1;
38             if(Student1.classification != 1)
39                 Console.WriteLine("Error! Classification is incorrect!");
40             else
41                 Console.WriteLine(Student1.classification);
42
43             Console.WriteLine(Student1.ToString());
44
45             Console.ReadKey();
46         }
47     }
48 }
49
```



```
Michael Banks
False
0
Michael Jackson
True
1
Michael Jackson is a current student: True.S 1 year(s) of college experience.
```

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Homework_1
8 {
9     class Student
10    {
11        private string P_name;
12        private bool P_currStudent;
13        private int P_classification;
14
15        public Student(String a_name, bool a_currStudent, int a_classification)
16        {
17            P_name = a_name;
18            P_currStudent = a_currStudent;
19            P_classification = a_classification;
20        }
21        public string name
22        {
23            get { return P_name; }
24            set { P_name = value; }
25        }
26
27        public bool currStudent
28        {
29            get { return P_currStudent; }
30            set { P_currStudent = value; }
31        }
32
33        public int classification
34        {
35            get { return P_classification; }
36            set
37            {
38                if (value > 8 || value < 0)
39                    throw new Exception("Your classification value is not valid");
40                else
41                    P_classification = value;
42            }
43        }
44
45        public override string ToString()
46        {
47            return P_name + " is a current student: " + P_currStudent + ".S " + P_classification + "
year(s) of college experience.";
48        }
49    }
50 }
51
```