**ICS 108 – Object-Oriented Programming**

**Lab # 15 – Exception Handling**

**Objectives:**

In this lab, the following topic will be covered:

1. Exception Handling

**Task**

Write a program that converts a time from 24-hour notation to 12-hour notation. The following is a sample interaction between the user and the program:

Enter time in 24-hour notation:

13:07

That is the same as

1:07 PM

Again? (y/n)

y

Enter time in 24-hour notation:

10:15

That is the same as

10:15 AM

Again? (y/n)

y

Enter time in 24-hour notation:

10:65

There is no such time as 10:65

Try Again:

Enter time in 24-hour notation:

16:05

That is the same as

4:05 PM

Again? (y/n)

n

End of program

Define an exception class called TimeFormatException. If the user enters an illegal time, like 10:65, or even gibberish, like 8&\*68, your program should throw and handle a TimeFormatException.