CIS 605 – Fall 2024
Assignment Set 6
Due Date: Friday, November 10 @ 11:59 PM

Develop the projects described below using good visual design and program coding practices that include

- Professional Appearance (Layout, placement, spelling, formatting)
- Meaningful title on title bar of form(s)
- Identifiers (names) for objects, variables, and constants are meaningful and follow a consistent naming convention
- General remarks at the start of every class in your program including Class Name, Class Description, Developer Name, Date Created, Date Last Modified
- Descriptive remarks for every method
- Proper indentation & blank line after each full comment line
- All variables and constants are local whenever possible (scope)
- Modular programming – i.e., breaking down a "large" programming task into multiple, independent modules, with each module performing one part of the required functionality.

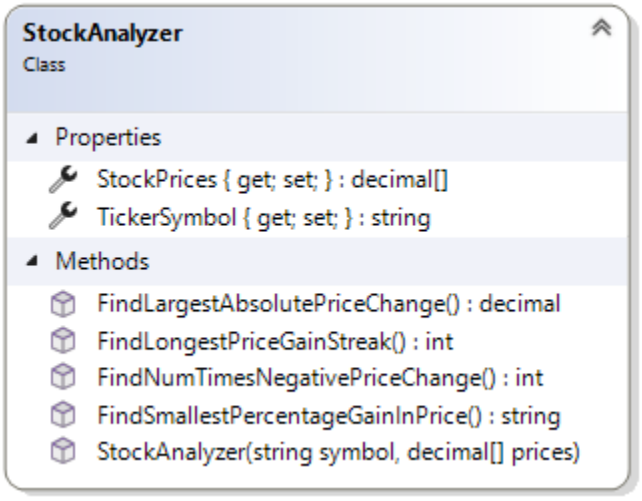
Caution: If the business logic is contained in the form class, you will receive zero credit for that program.

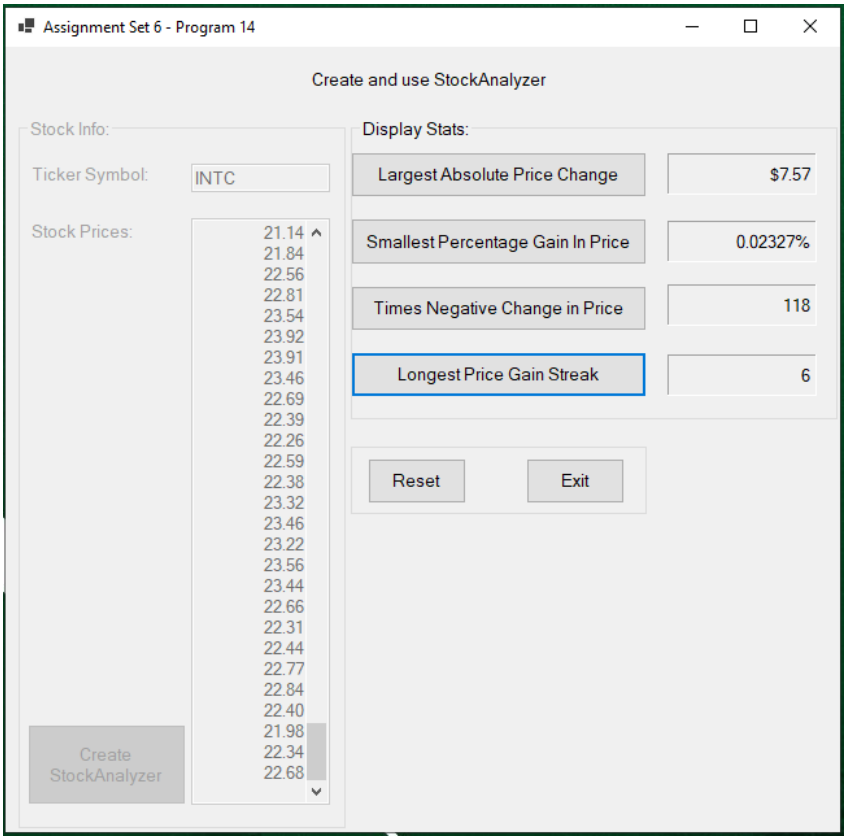
Follow these steps to complete the two programs in this assignment set:

- Download the zipped file, **CIS605AS6.zip**
- Extract and save the folder and files in a convenient location (i.e., your CIS 605 folder on the S drive)
- Complete the requirements outlined in
  - StockAnalyzer.cs (four methods)
  - Program 14.cs (four event-handler methods)
  - ScoreCard.cs (four methods)
  - Program 15.cs (four event-handler methods)

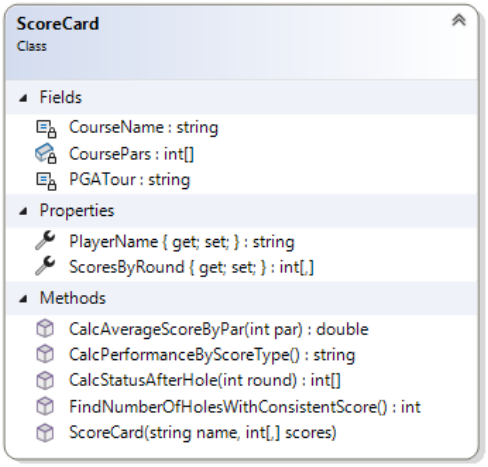
CIS605AS6SampleData.xlsx has sample data for both programs. For your reference, the outputs for the two programs (using the sample data) is shown below.

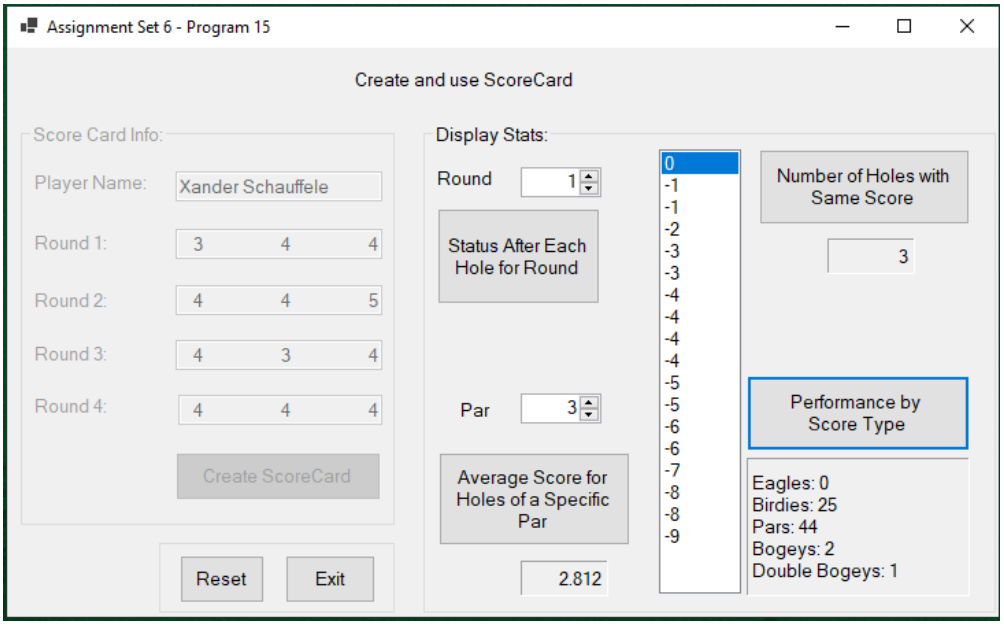
Program 14

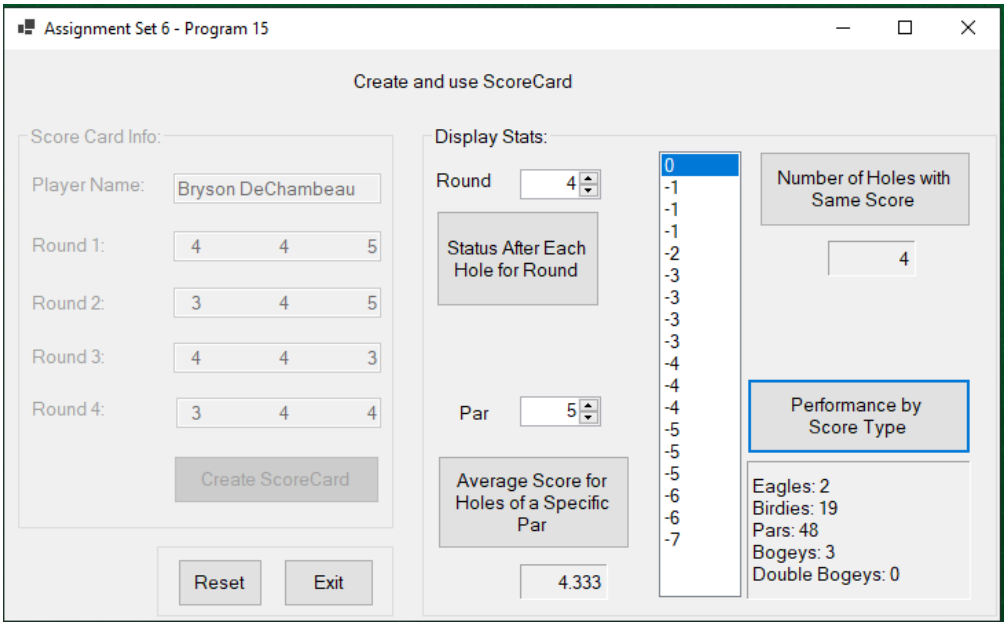



Assignment Set 6 - Program 14
Create and use StockAnalyzer
Stock Info:
Ticker Symbol:
INTC
Stock Prices:
21.14
21.84
22.56
22.81
23.54
23.92
23.91
23.46
22.69
22.39
22.26
22.59
22.38
23.32
23.46
23.22
23.56
23.44
22.66
22.31
22.44
22.77
22.84
22.40
21.98
22.34
22.68
Create StockAnalyzer
Display Stats:
Largest Absolute Price Change
$7.57
Smallest Percentage Gain In Price
0.02327%
Times Negative Change in Price
118
Longest Price Gain Streak
6
Reset
Exit

Program 15


ScoreCard
Class
Fields
CourseName : string
CoursePars : int[]
PGATour : string
Properties
PlayerName { get; set; } : string
ScoresByRound { get; set; } : int[,]
Methods
CalcAverageScoreByPar(int par) : double
CalcPerformanceByScoreType() : string
CalcStatusAfterHole(int round) : int[]
FindNumberOfHolesWithConsistentScore() : int
ScoreCard(string name, int[,] scores)


Assignment Set 6 - Program 15
Create and use ScoreCard
Score Card Info:
Player Name:
Xander Schauffele
Round 1:
3 4 4
Round 2:
4 4 5
Round 3:
4 3 4
Round 4:
4 4 4
Create ScoreCard
Reset
Exit
Display Stats:
Round
1
Status After Each Hole for Round
Par
3
Average Score for Holes of a Specific Par
2.812
0
-1
-1
-2
-3
-3
-4
-4
-4
-4
-5
-5
-6
-6
-7
-8
-8
-9
Number of Holes with Same Score
3
Performance by Score Type
Eagles: 0
Birdies: 25
Pars: 44
Bogeys: 2
Double Bogeys: 1


Assignment Set 6 - Program 15
Create and use ScoreCard
Score Card Info:
Player Name:
Bryson DeChambeau
Round 1:
4 4 5
Round 2:
3 4 5
Round 3:
4 4 3
Round 4:
3 4 4
Create ScoreCard
Reset
Exit
Display Stats:
Round
4
Status After Each Hole for Round
Par
5
Average Score for Holes of a Specific Par
4.333
0
-1
-1
-1
-2
-3
-3
-3
-3
-4
-4
-4
-5
-5
-5
-6
-6
-7
Number of Holes with Same Score
4
Performance by Score Type
Eagles: 2
Birdies: 19
Pars: 48
Bogeys: 3
Double Bogeys: 0