Project 4-1 – StormLand

Figure 1

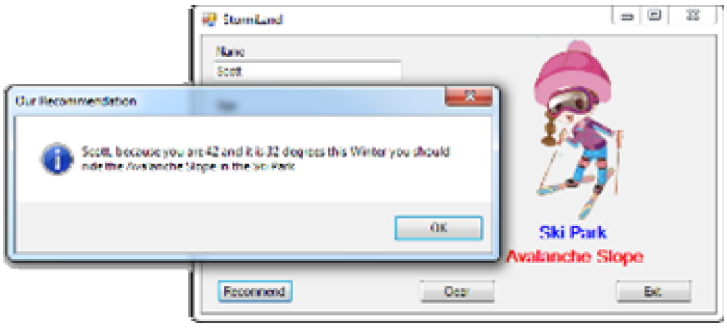


Figure 2

StormLand is an amazing amusement park that features a water park, an amusement park, and a ski park all in one location. Each park features three "main attraction" rides that are best suited for their young, tween, and teen and older guests. While StormLand as a whole is opened year-round, the three individual parks have seasonal operation based on the season and temperature. The only time the entire park will be closed is in winter when it is too warm to safely ski. Because the operation/main attraction schedule can get confusing to guests, you have been hired as the lead programmer responsible for coding a Guest Recommendation System (GRS). This program will make a recommendation on which attraction a user should visit based on the guest's information and the following park rules/operation schedule:

	Water Park	Amusement Park	Ski Park
Season	Only open in summer	Open in spring, summer & fall	Only open in winter
Age: **Under 7**	**Rain Storm**	**Lil' Tornado**	**Snow Drift Slope**
7-13	**Summer Storm**	**Storm Chaser**	**Blizzard Slope**
14 and up	**Thunder Storm**	**Storm Buster**	**Avalanche Slope**
Temperature	Only open if temperature is 74 degrees or warmer	N/A	Park is closed if temperature is warmer than 50 degrees

After the user enters his/her information (Figure 1), the program will make a recommendation (Figure 2) based on season & temperature (which park to visit) and age (which attraction to ride). For example, if the season is summer, the temperature is 86 & the guest's age is 24, the program would recommend visiting the Water Park and riding the Thunder Storm. In the same example, if the temperature were 69, the program would recommend visiting the Amusement Park and riding the Storm Buster.

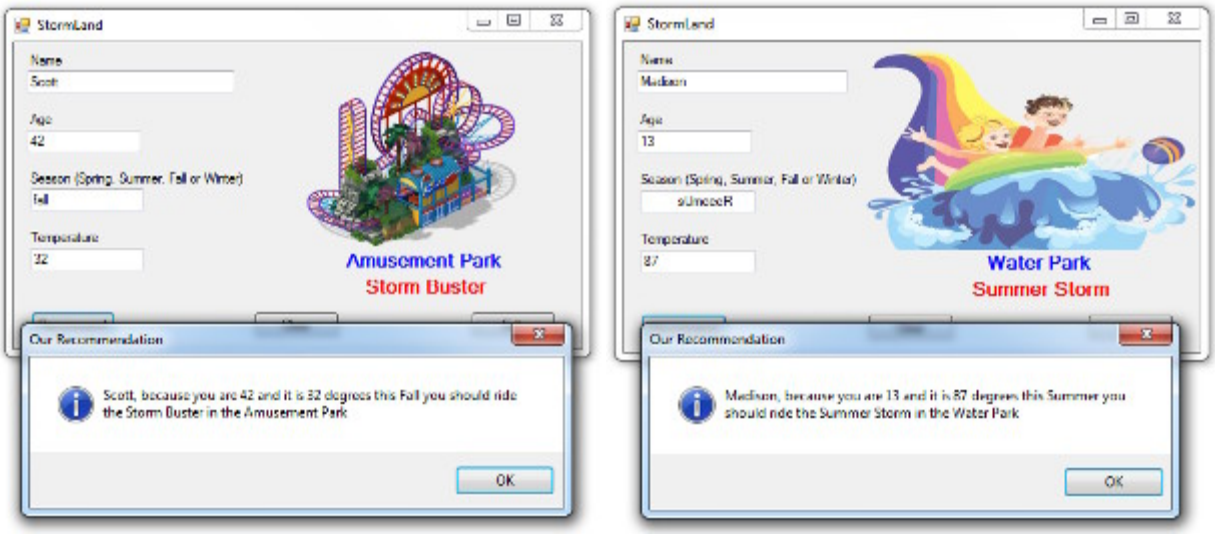
Project Objectives:

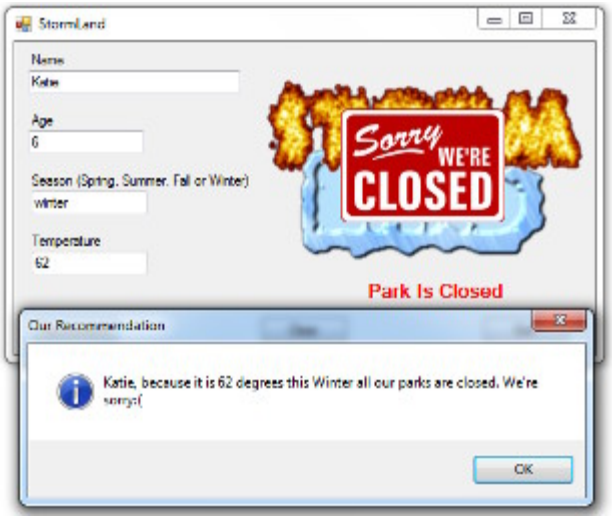
- Evaluate decisions and conditions using control structures
  - If...Then Statement
  - If...Then...ElseIf Statement
  - Select Case Statement
  - Nested if statements
- Use of relational & logical operators
- Ability to compare Strings
- Converting strings to all caps/lower case
- Testing for numeric input
- Use of substring
- Use of trim
- Message Box Arguments
- Use input validation

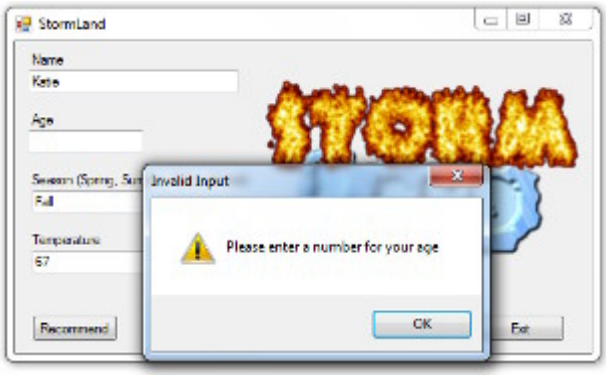
Requirements

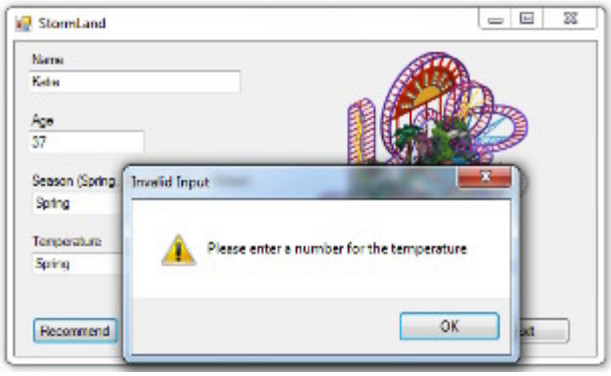
- Comment your code!!!
- Program output will be displayed in a message box with the following format:
  <NAME>, because you are <AGE> and it is <TEMPERATURE> degrees this <SEASON> you should ride the <ATTRACTION> in the <PARK>.
- Message box will be titled **Our Recommendation** and have the Information icon
- The form will display a park graphic with the name of the park and the name of the attraction below the graphic (graphics do not have to match mine)
- Clear button restores all values to original start state and sets focus to the name text box
- Must use (at least once):
  - If...Else
  - If...Then...ElseIf
  - Select Case
  - Nested If
- Tab order should progress from text boxes to Recommend, Clear, and Exit buttons
- Recommendation is the form's AcceptButton & Exit is the form's CancelButton
- All text boxes need to be checked for valid input – if the input is invalid, a message box titled Invalid Input with an exclamation icon will be displayed telling the user what is wrong. When OK is clicked, the focus will be set to the text box with the error
- Must use both IsNumeric and Try/Catch
- When checking season, the program will only look at the first two characters of the user input
  - Account for leading spaces
  - User input is not be case sensitive

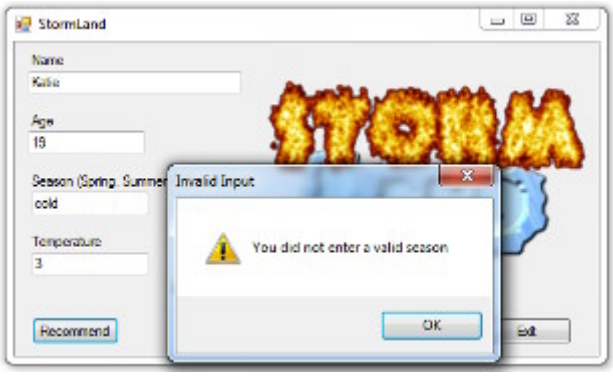
EXAMPLE OUTPUT




StormLand
Name
Katie
Age
6
Season (Spring, Summer, Fall or Winter)
winter
Temperature
62
Sorry WE'RE CLOSED
Park Is Closed
Our Recommendation
Katie, because it is 62 degrees this Winter all our parks are closed. We're sorry:(
OK


StormLand
Name
Katie
Age
Season (Spring, Summer, Fall or Winter)
Fall
Temperature
67
Recommend
Exit
Invalid Input
Please enter a number for your age
OK


StormLand
Name
Katie
Age
37
Season (Spring, Summer, Fall or Winter)
Spring
Temperature
Spring
Recommend
Invalid Input
Please enter a number for the temperature
OK


StormLand
Name
Katie
Age
19
Season (Spring, Summer, Fall or Winter)
cold
Temperature
3
Recommend
Exit
Invalid Input
You did not enter a valid season
OK