Part 2: Creating, Displaying and Storing a Survey/Test to a File

Main driver 10%

Your program should operate from a text menu with options. For Part 2, you must have an option to create a new survey and add new question of types: true/false, multiple choice, short answer, essay rank the choices, and matching.

i.e. Menu 1

1) Survey

2) Test

i.e Survey Menu 2	i.e. Test Menu 2
1) Create a new Survey	1) Create a new Test
2) Display a Survey	2) Display a Test
3) Load a Survey	3) Load a Test
4) Save a Survey	4) Save a Test
5) Quit	5) Quit

When option 1) is selected from Menu 2, then a follow up menu is shown.

i.e. Menu 3

- 1) Add a new T/F question
- 2) Add a new multiple choice question
- 3) Add a new short answer question
- 4) Add a new essay question
- 5) Add a new ranking question
- 6) Add a new multiple choice question

Creating the Survey/Test: 27%

- True/False 3%
- Multiple Choice 3%
- Short Answer 3%
- Essay Answer 3%
- Rank the Choices 3%
- Matching 3%
- Handles improper input 3%
- Single answer per question 3%
- Multiple answers per each question 3%

When you enter a new question for a survey or test you must ask for the appropriate information depending upon the type of question.

i.e T/F is selected from Menu 2

```
Enter the prompt for your True/False question: User types their prompt here.
```

i.e MC is selected from Menu 2

```
Enter the prompt or your multiple choice question: User types their prompt here.
```

Enter the number of choices for your multiple choice question. User types the number of choices.

```
Enter choice #1.

User types choice 1.

Enter choice #2

User types choice 2....
```

If you are filling out a test instead of a survey, then you would need to add an additional prompt and query the user for the correct answer.

i.e.

```
Enter correct choice
User types the number of the choice they want to be the correct
```

Reasonable error checking should be included. For example, the application should only allow a valid option to be entered.

Displaying a Survey/Test 16%

When 2 is selected from Menu 3, the Survey/Test should be displayed to the screen. This requires that each question have a method to display itself.

- True/False 2%
- Multiple Choice 2%
- Short Answer 2%
- Essay Answer 2%
- Rank the Choices 2%
- Matching 2%
- Single answers per question 2%
- Multiple answers per question 2%

i.e. Display a Survey is selected from Menu 3

```
1) This is an example of a T/F question?
T/F
2) This is an example of a multiple choice question with 3 choices?
A) Choice 1 B) Choice 2 C) Choice 3
etc...
i.e. Display a Test is selected from Menu 2
```

```
1) This is an example of a T/F question?
The correct answer is T
2) This is an example of a multiple choice question with 3 choices?
A) Choice 1 B) Choice 2 C) Choice 3
The correct choice is A) Choice 1
```

etc...

Loading a Survey/Test: 16%

When 3 is selected from Menu 2, the Survey/Test must be loaded from a file. You can decide on the file type. Be aware, some types are easier to verify that they work than others. ie. Serializing vs. XML. You should present a menu of possible files to load and allow the user to select 1.

i.e.

```
Please select a file to load:
1) Survey 1
2) Survey 2
3) Test 1
4) Survey 3
```

- True/False 2%
- Multiple Choice 2%
- Short Answer 2%
- Essay Answer 2
- Rank the Choices 2%
- Matching 2%
- Single answers per question 2%
- Multiple answers per question 2%

Saving a Survey/Test: 16%

When 4 is selected from Menu 2, the Survey/Test must be saved to a file. You can determine the file type. Be aware, some types are easier to verify that they work than others. ie. serializing vs. XML.

- True/False 2%
- Multiple Choice 2%
- Short Answer 2%
- Essay Answer 2%
- Rank the Choices 2%
- Matching 2%
- Single answers per question 2%
- Multiple answers per question 2%

Comments and Overall Style: 6%

PLEASE NOTE: You must include the entire project and all its files. Place these files in a Zip not Tar file. Load a single file to Drexel Learn with a ReadMe file that explains any issues, what method you used for saving a file, and where the sample files are located. Also, your sample files should have a relative address from the binary. **Do not use absolute paths** as they won't work when we are grading them. YOU MUST have file saving and loading working to submit this assignment. If you are missing a type of question or multiple answers you can turn it in and you will lose the points for those types of questions. **Make sure you create sample files with at least one of each type of question in it.**

Handling Improper Input (9%)

Your program should gracefully handle inappropriate input and NEVER crash.

The late penalty is 10 points per week it is late.