Certificate

Lucknow Public School

Computer Science (083)
AISSCE Practical Examination
Session 2015-16

This is to certify that Aditya Vikram Singh and Sagar Mishra of Class XII bearing Roll Nos. _____ and _____ have completed thier project on the topic "TodX – A Todo App" in accordance with specifications prescribed by CBSE BOARD, New Delhi.

Teacher's Signature   Principal's Signature

Acknowledgement

We have taken enormous efforts in creating this project. However, it would not have been possible without the kind support and help of many individuals and organizations. We would like to extend our sincere thanks to all of them.

We are highly indebted to Mr Gajendra Dhami for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

None of us got to where we are alone. Whether the assistance we received was obvious or subtle, acknowledging someone's help is a big part of understanding the importance of saying thank you.

- Harvey Mackay

Preface

TodX is a Todo List application. It uses the command line interface to interact with the users. In this app, a person can create and manage multiple list of Todos. Each list has a Title, and an optional set of tags. The list contains Todos with a status. The status can be changed by users at will and reflects the condition of the Todo. Each user can use a custom symbol, letter or number in the status.

The Lists can be searched and exported to a text file for external use. The app saves the data every time it is closed. So it can recover the data of the users in the next turn.

Concepts of C++ used :

- File Handling
- Object Oriented Programming
- Array

Working of the Program

The app recieves commands from users, it then passes the command to the parser function. Here if the command matches a specific command, the changes in the data take place, and additional info is asked from user if necessary.

Quick Start

Basic Commands
These commands are used in the app to do the root or basic actions like open, append etc. These are entered in the `*>` prompt

New

Command : `new` or `n`

Create a new list by entering title and tags(*optional*).

Open

Command : `open` or `o`

Open a list from previously created lists. The list that is opened with this command is said as *opened*.

Note

Commands marked * work only when a list is open.

Stats

Command : `stats` or `stat`

View wether a list is opened or not.

View *

Command : `view` or `v`

View the Todos of currently opened list.

Append *

Command : `append` or `a`

Append a new Todo in the currently *opened* list.

Mark *

Command : `mark` or `m`

Mark a Todo as done using charcters like * or #.

Search

Command : `search` or `srch`

Search the data for a search term.

Export

Command : `export` or `exp`

Export the data to a readable text file.

Quit

Command : `quit` or `q`

Close the app. It also saves the notes to the data file.

⬅═══ ◇ ═══➡

═SourceCode═

⬅═══ ◇ ═══➡

ScreenShots

```
●  ●  ●                          Todx

=== --- -->  TodX  <-- --- ===
Welcome to TodX the ultimate Todo list
v1.00a = Linux Build, docs at -> http://todx.rtfd.io


 *> new
Enter title for your list
 +> Science Project - CycloTron
Do you want some tags? (yes/no)
 ?> yes
Enter the tag one at a time
'd' when done
 +> Physics
 +> ElectroDynamics
 +> Urgent
 +> d


 *> open
Enter The No. of List to be opened
0. Science Project - CycloTron
 #> 0
Opened : Science Project - CycloTron
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent
```

```
●  ●  ●                          Todx

 *> append
Enter the content of ToDo
 +> Get the Magnets for CycloTron


 *> append
Enter the content of ToDo
 +> Find a Viable Source of Power


 *> append
Enter the content of ToDo
 +> Find a Source of electrons


 *> view
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent

  [ ]  Get the Magnets for CycloTron
  [ ]  Find a Viable Source of Power
  [ ]  Find a Source of electrons
```

```
 *> mark
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent

 0. [ ]  Get the Magnets for CycloTron
 1. [ ]  Find a Viable Source of Power
 2. [ ]  Find a Source of electrons
Choose the Todo to mark :
 #> 1
Enter The new Status
 +> !


 *> view
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent

 [ ]  Get the Magnets for CycloTron
 [!]  Find a Viable Source of Power
 [ ]  Find a Source of electrons
```

```
 *> search
Enter the search term
 +> Magnets
Found in ToDo, List Index => 0
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent

 [ ]  Get the Magnets for CycloTron
 [!]  Find a Viable Source of Power
 [ ]  Find a Source of electrons


 *> delete
What do you want to delete? (list/todo/tag)
 ?> todo
Enter the Index of Todo to Delete
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent

 0. [ ]  Get the Magnets for CycloTron
 1. [!]  Find a Viable Source of Power
 2. [ ]  Find a Source of electrons
```

```
?> todo
Enter the Index of Todo to Delete
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent

 0. [ ]  Get the Magnets for CycloTron
 1. [!]  Find a Viable Source of Power
 2. [ ]  Find a Source of electrons
 #> 2
Are you sure, This cannot be undone, This will delete the ToDo ->
2.  [ ]  Find a Source of electrons
Enter 'yes' to continue
 ?> yes

 *> export
Enter the Export file name
 +> project-phy
File exported to : project-phy.tdexp successfully :)

 *> quit
Enter 'yes' to continue
 ?> yes
Data Saved, Have a Great Day :)
```

Text

```
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v1.00a = Linux Build, docs at -> http://todx.rtfd.io

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Enter title for your list
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Enter the tag one at a time
'd' when done
 +> Physics
 +> ElectroDynamics
 +> Urgent
```

```
  +> d


  *> open
Enter The No. of List to be opened
0. Science Project - CycloTron
  #> 0
Opened : Science Project - CycloTron
Science Project - CycloTron
============
Tags : Physics ElectroDynamics Urgent



  *> append
Enter the content of ToDo
  +> Get the Magnets for CycloTron


  *> append
Enter the content of ToDo
  +> Find a Viable Source of Power


  *> append
Enter the content of ToDo
  +> Find a Source of electrons


  *> view
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Tags : Physics ElectroDynamics Urgent

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   [ ]  Find a Viable Source of Power
   [ ]  Find a Source of electrons


  *> mark
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 1. [ ]  Find a Viable Source of Power
 2. [ ]  Find a Source of electrons
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 #> 1
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 +> !


 *> view
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Tags : Physics ElectroDynamics Urgent


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  [!]  Find a Viable Source of Power
  [ ]  Find a Source of electrons


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Enter the search term
 +> Magnets
Found in ToDo, List Index => 0
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Tags : Physics ElectroDynamics Urgent


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  [!]  Find a Viable Source of Power
  [ ]  Find a Source of electrons


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Enter the Index of Todo to Delete
Science Project - CycloTron
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Tags : Physics ElectroDynamics Urgent


 0. [ ]  Get the Magnets for CycloTron
 1. [!]  Find a Viable Source of Power
 2. [ ]  Find a Source of electrons
```

```
 #> 2
Are you sure, This cannot be undone, This will delete the ToDo ->
2.  [ ]  Find a Source of electrons
Enter 'yes' to continue
 ?> yes


 *> export
Enter the Export file name
 +> project-phy
File exported to : project-phy.tdexp successfully :)


 *> quit
Enter 'yes' to continue
 ?> yes
Data Saved, Have a Great Day :)
```