Presentation Script

Olivier will provide USB with program files.
Emilio will control mouse and keyboard.

BEFORE POWERPOINT

Emilio: *Launch the .exe. Right click the top of the window and click "Properties>>Layout". Set "Screen Buffer Size" to 1000, so that scrolling is enabled.*
If the window is too large, "Properties>>Font" and set the font size to a smaller value.
Open powerpoint presentation.

Olivier: Hello everyone, today we are presenting our Inventory Management program, Instaventory. First, let us introduce ourselves - my name is Olivier,

Emilio: I'm Emilio.

Hiren: I'm Hiren.

Yue: And I'm Yue.

BEGIN POWERPOINT

Hiren: *Read first slide, "What is Inventory Management Software?"*

Yue: *Read second slide, "Instaventory"*

Emilio: *Read third slide, "User Interface"*

Olivier: *Read fourth slide, "How Products/Items are stored in File"*

Hiren: *Read fifth slide, "Data Structures"*

Yue: *Read sixth slide, "Efficiency"*

Olivier: *Explain seventh slide, "Data Structure Diagram"*

<u>END POWERPOINT</u>

Emilio: *Switch to program.*
Demonstrate [1] Add / [2] Delete Data, also showing input validation.

Emilio: *[3] Search by UID.*
Hiren: When we search by item UID, we use a hash table. As you can see near the bottom of the screen, it takes a very small amount of operations to find items this way.

Emilio: *[4] List Data Sorted by UID.*
Olivier: To sort the data, we merge sort an array of Items.

Emilio: *[5] Print Hash Table.*
Hiren: This feature simply prints out the contents of each bucket of the hash table. As you can see, there are empty buckets, and there are also a few buckets that have more than one element inside them - a collision.

Emilio: *[6] Print Binary Tree.*
Yue: Similar to "Print Hash Table", this just prints out the binary tree used by our program.

Emilio: *[7] Efficiency.*
Olivier: You might have noticed that for every option so far, the number of operations each option took was displayed at the bottom - in this menu, you

can see the total amount of operations since launch, and other information such as the number of collisions or the load factor of the hash table.

Emilio: *[8] Margins and Profitability.*
Yue: Our special feature is that we calculate which items have the best profit margin, and we use a binary search tree to quickly get an ordered list of Items by profit margin.

Emilio: *[9] Quit*
Olivier: That's our program, thank you for listening and watching. Now, we would take any questions from the audience.