| **5 -10 Minute Speech Delivery** | **Coding Window Demonstration** |
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| *Good evening everyone. I will be conducting the code walkthrough for explaining how our notes program works in java.*  *Let’s begin by first testing LSL and USL boundaries.*  *… enters 0*  *…. enters 5*  *As you can see we get the message of invalid entry; try again* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 0  Invalid entry: Try again  Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 5  Invalid entry: Try again |
| *Next, I will enter a valid entry of 2*  *…. Enters 2*  *As you can see the list shows that it is empty* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 2  To Do List  Your list is empty |
| *Next ill add some common items onto the Notes list. We begin adding notes by pressing 1*  *….. enters 1*  *Ill add milk onto the list*  *… types milk* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 1  Enter a note to add onto your list: milk |
| *Ill add another item; again, I’ll begin adding notes by pressing 1 again*  *…. enters 1*  *I’ll add almonds onto the list*  *…. Types almonds* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 1  Enter a note to add onto your list: almonds |
| *Let’s add some more items; again, I’ll begin adding notes by pressing 1 again*  *…. enters 1*  *I’ll add cup onto the list*  *… types cup* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 1  Enter a note to add onto your list: cup |
| *Ill add one last item onto the list; again, I’ll begin adding notes by pressing 1 again*  *…. enters 1*  *I’ll add sugar onto the list*  *… types sugar* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 1  Enter a note to add onto your list: sugar |
| *So far, I have entered milk, almonds, cup and sugar onto the list of notes. Let’s verify that the list actually stored all my added notes.*  *Ill display all the items that I’ve currently added onto by list by pressing 2.*  *…. Enters 2*  *As you can see the list contains (milk, almonds, cup and sugar)* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 2  To Do List  -----------  1: milk  2: almonds  3: cup  4: sugar |
| *Next, I’ll remove an item from the list. Ill enter 3 in order to remove an item*  *…. Enters 3*  *Next, I want to remove sugar so therefore I will type in “4” for the index number for removing the note*  *… enters 4*  *Last, I will press 2 to see the list again*  *…. Enters 3*  *As you can see sugar is removed from the list* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 3  Enter the index number for removing a note:  4  Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 2  To Do List  -----------  1: milk  2: almonds  3: cup |
| *Ill remove some more items from the list.*  *Ill test the LSL/ USL boundaries.*  *I will enter 0 first*  *….. enters 0*  *The code shows invalid index because the notes only has 1-3 as the valid index entries*  *I will enter 4 next*  *….. enters 4*  *The code shows invalid index because the notes only has 1-3 as the valid index entries*  *Next, I will enter a valid entry of 3.*  *---- enters 3*  *On the list shown above 3 corresponds to “cup” so by entering 3 means that ill be removing cup from the list.*  *Let’s verify that cup was removed from the notes list.*  *Ill press 2 to show the list*  *….. enters 2*  *As you can see cup is removed from the list* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 3  Enter the index number for removing a note:  0  Invalid Index: Enter a valid index  4  Invalid Index: Enter a valid index  3  Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 2  To Do List  -----------  1: milk  2: almonds |
| *Next ill remove some more items from the list. Ill enter 3 in order to remove an item*  *…. Enters 3*  *Let’s enter milk to remove from the list*  *….. types milk*  *As you can see the code recognizes that string input is invalid and prompts the user to enter a valid entry which is a numeric index entry*  *Again, let’s try to enter another item to remove.*  *Let’s enter almonds to remove from the list*  *…. Types almonds*  *Again, we see the same error message for not having a valid entry*  *Next let’s enter a valid entry of 2 which means that we will be removing almonds from the list*  *Next to verify that almonds was removed from the list. I will look at my notes list again. I will enter 2 to display the list.*  *….. enters 2*  *As you can see only milk remains on the list* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 3  Enter the index number for removing a note:  milk  Thats not a valid entry  almonds  Thats not a valid entry  2  Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 2  To Do List  -----------  1: milk |
| *Last, I will enter 4 to quit the program.*  *…. Enters 4*  *As you can see a message saying “thank you for using the program” communicates to the user that they have successfully terminated the program.*  *Furthermore, the code waits for the user entry again incase if the user wishes to use the program again after quitting the program.*  *This concludes the code walkthrough of how our notes program works in java.*  *Thank you.* | Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: 4  Thank you for using the program  Select 1 if you would like to add notes onto your list  Select 2 if you would like to display your list  Select 3 if you would like to remove notes from your list  Select 4 if you would like to exit this program  Please enter a number between 1-4: |

**Appendix- Coding Window Demonstration**



 