End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Functional Test Cases

This section captures the following for the LockedMe.com virtual keys repository application prototype:

- Outlines 19 functional test case scenarios
- Documents the excepted result of the test case
- Captures the test case outcome (pass/fail)
- Records the test case input
- Provides a snapshot of the program console output
- Provides the directory structure before and after snapshots (where applicable)

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022

Test Case Output

Functional Test Cases - "Good" Path

Test Case Scenario: Launch Program – Use Test Mode

Expected Result: User launches the application and indicates that the User wants to the application in Test Mode (i.e. using C:\test)

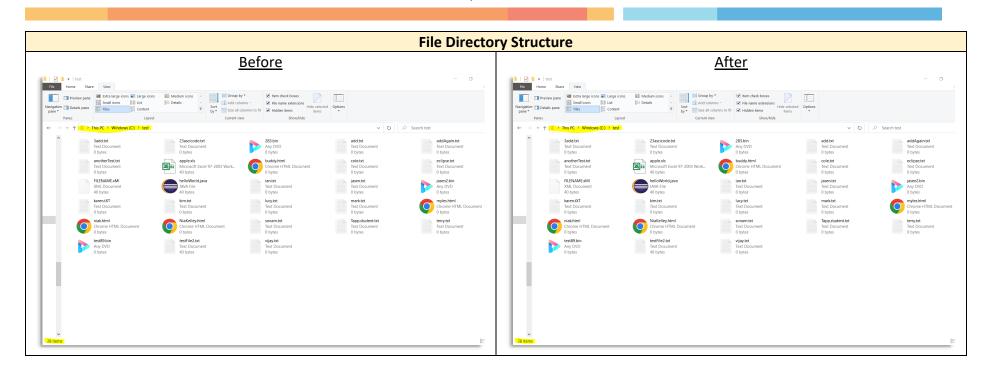
Test Outcome: Pass
Test Case Input: y
Test Case Output:

Program Console Console × /irtualKey [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Jul 3, 2022, 1:27:12 PM) [pid: 32608] [Console output redirected to file:C:\Users\niake\eclipse\java-2022-03\eclipse\output.virtualKeyConsole.07032022.txt] *************** Welcome to the Virtual Keys Repository of LockedMe.com Version: 1.0 PROTOTYPE Client: Lockers Pvt. Ltd Full Stack Developer Name: Nia Kelley Jester **************** Do you want to run in TEST mode (using C:\test) - y or n? You specified the following target directory: C:\test MAIN MENU *************** 1. Display the current file names in ASCENDENING order 2. Open Business Level Operations Menu 3. Close the application ***************** Choose your option...

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Test Case Output

Student: Nia Kelley Jester

Summer 2022

Test Case Scenario: List Files

Expected Result: User opts to "display the current file names in Ascending order" from the Main Menu

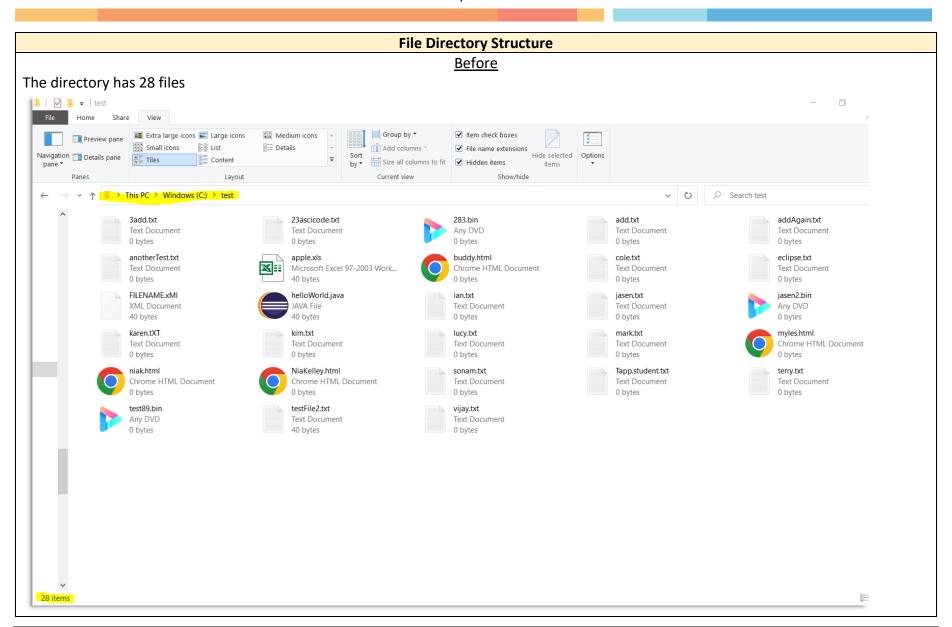
Test Outcome: Pass Test Case Input: 1 Test Case Output:

Program Console ■ Console × rtualKey [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Jul 3, 2022, 1:27:12 PM) [pid: 32608] MAIN MENU 1. Display the current file names in ASCENDENING order 2. Open Business Level Operations Menu 3. Close the application Choose your option... Selected main menu option: 1 Retrieve files from C:\test 23ascicode.txt 283.bin 3add.txt add.txt addAgain.txt anotherTest.txt apple.xls buddy.html cole.txt eclipse.txt FILENAME.xMl helloWorld.java ian.txt jasen2.bin karen.tXT kim.txt lucy.txt mark.txt myles.html niak.html NiaKelley.html sonam.txt test89.bin testFile2.txt vijay.txt There are 28 files in the directory. Enter 'c' to continue, 'x' to quit:

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

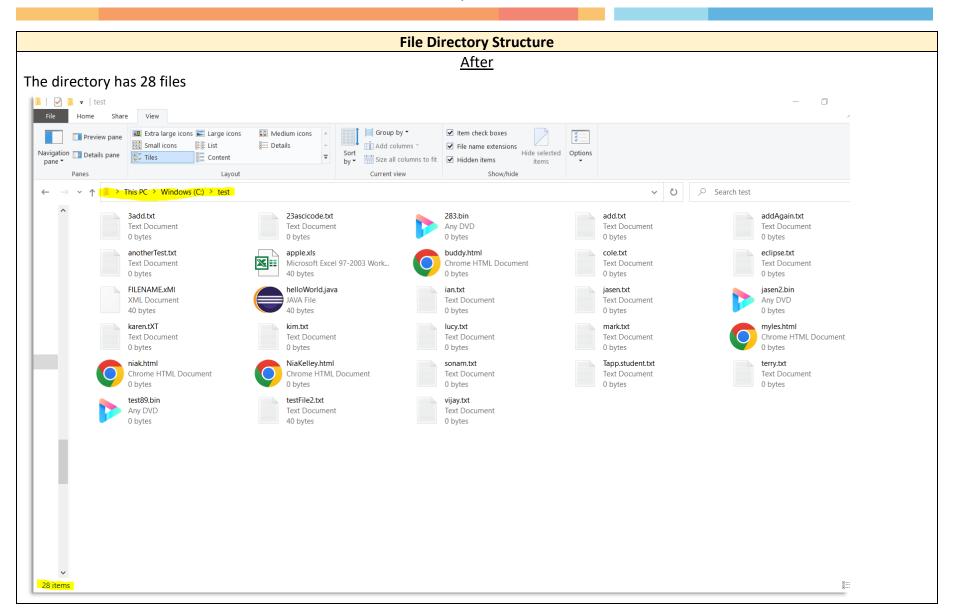
Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Continue Program after List Files

Expected Result: User opts to continue the program after the list files operation. The program will accept "C" or "c" to continue the program.

Test Outcome: Pass
Test Case Input: c
Test Case Output:

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Open Business Level Options Menu

Expected Result: User opts to open the Business Level Options Sub-Menu.

Test Outcome: Pass Test Case Input: 2 Test Case Output:

Program Console			

 Display the current file names in ASCENDENING Open Business Level Operations Menu Close the application ************************************	order		
Choose your option 2 (
. Business Level Options Sub-Menu . 1. Add new file 2. Delete File (case sensisitive) 3. Search for File (case sensisitive) 4. Go back to main menu			
Choose your option			

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Add New File

Expected Result: User wants to add a new file to the directory. The User will input the desired file name for addition, and the application will create the file in the directory. Per the requirement, the application ignores case sensitivity for this feature.

Test Outcome: Pass

Test Case Input:

• 1

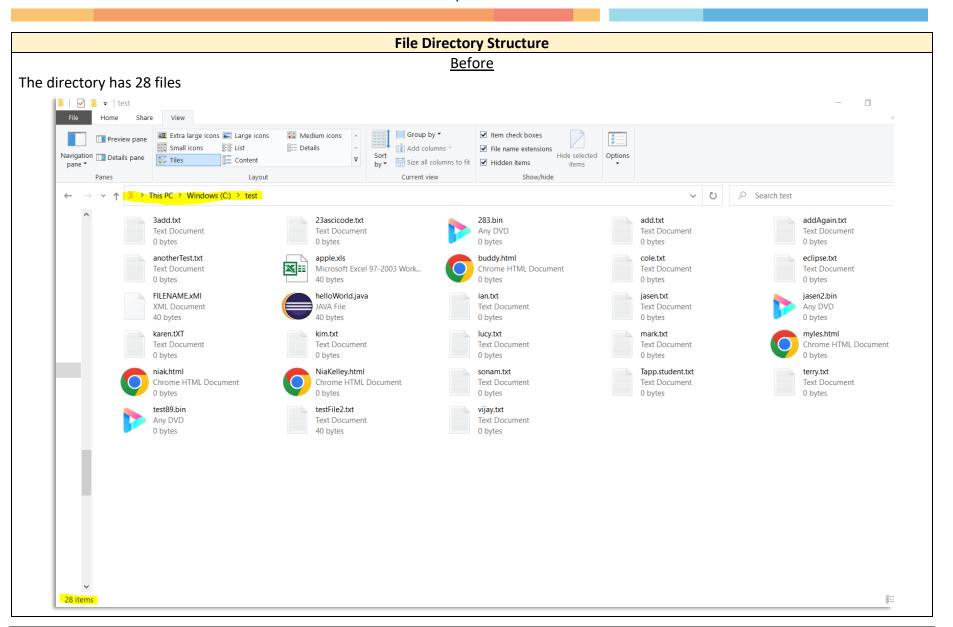
• raj.student.txt

	Program Console
. Bus	iness Level Options Sub-Menu .
3. Search	file File (case sensisitive) for File (case sensisitive) k to main menu
Choose you 1 (Specify t raj.stude File crea	ur option he file name to ADD to C:\test: nt.txt < ted successfully! (
. Bus	iness Level Options Sub-Menu .
 Add ne Delete Search 	w file File (case sensisitive) for File (case sensisitive) k to main menu
Choose yo	ur option

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

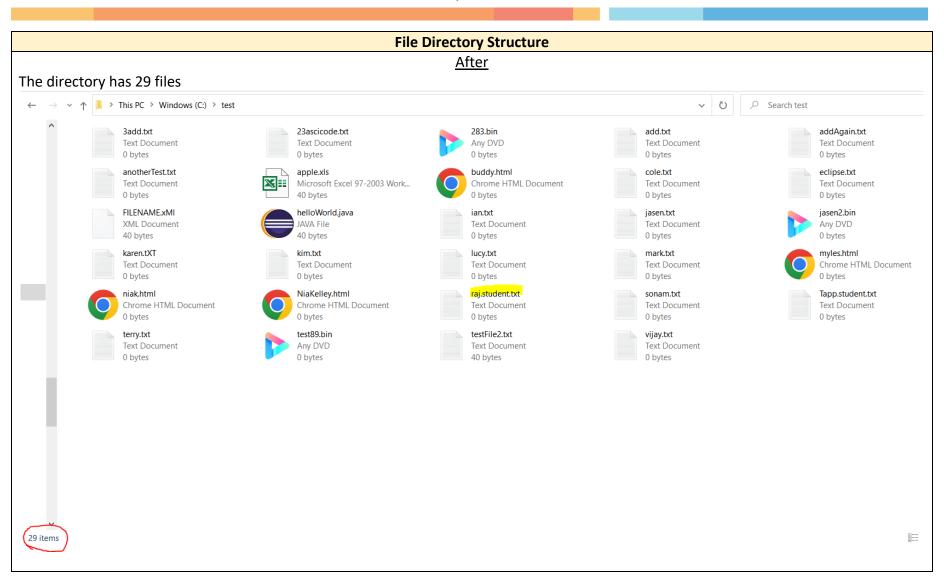
Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Delete File – File Found – Proceed with Deletion

Expected Result: User inputs a file name for deletion. The application conducts a case sensitive search to determine if the file name already exists. If the file name already exists, the applicate will display a message and will not delete the file. If the file name does not exist, the application asks the User to confirm the deletion. Upon indicating "Y" or "y", the application will delete the file from the directory, and displays a confirmation message on the console.

Test Outcome: Pass

Test Case Input:

• 2

raj.student.txt

y

End-of-Phase Project Virtual Keys Repository Prototype Application

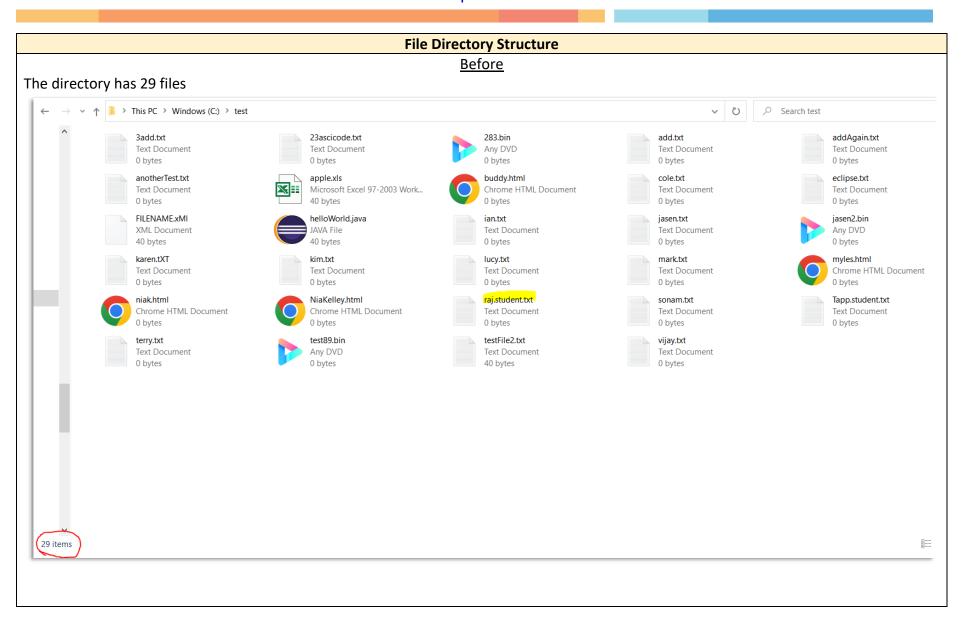
Student: Nia Kelley Jester Summer 2022

Test Case Output

```
Program Console
      Business Level Options Sub-Menu
1. Add new file
Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu
Choose your option...
Specify the file name to DELETE from C:\test:
raj.student.txt
The file exists already...
Do you really want to delete - y or n?
File deleted Successfully
      Business Level Options Sub-Menu
1. Add new file
Delete File (case sensisitive)
Search for File (case sensisitive)
4. Go back to main menu
Choose your option...
```

End-of-Phase Project Virtual Keys Repository Prototype Application

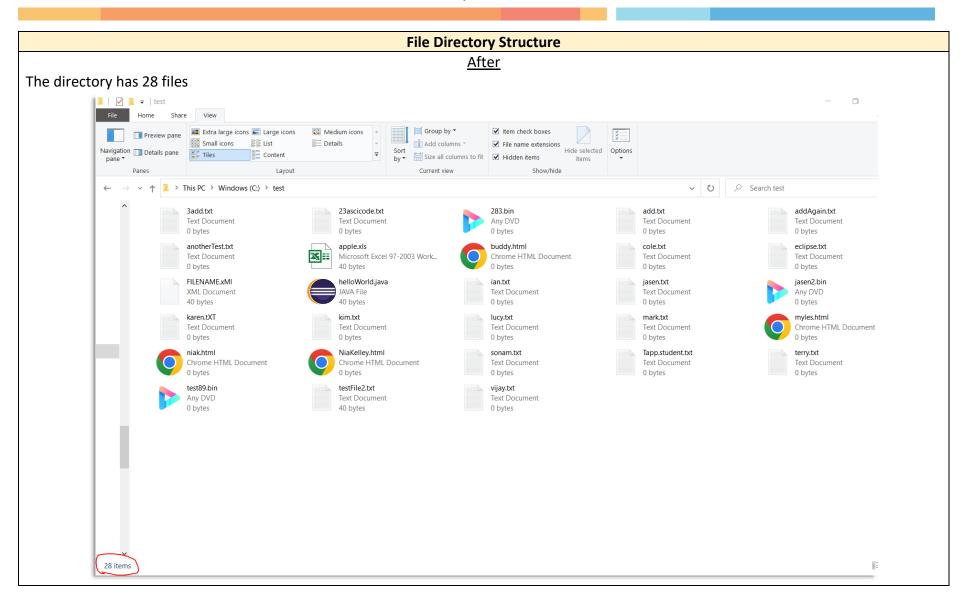
Student: Nia Kelley Jester Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Delete File – File Found – Do not proceed with Deletion

Expected Result: User inputs a file name for deletion. The application conducts a case sensitive search to determine if the file name already exists. If the file name already exists, the applicate will display a message and will not delete the file. If the file name does not exist, the application asks the User to confirm the deletion. The application asks the User to confirm the deletion. Upon indicating "N" or "n", the application does not delete the file from the directory and displays an appropriate message on the console.

Outcome: Pass Test Case Input:

- 2
- mark.txt
- n

Test Case Output:

Program Console

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

```
. Business Level Options Sub-Menu

1. Add new file
2. Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu
...

Choose your option...
2

Specify the file name to DELETE from C:\test:
mark.txt
The file exists already...
Do you really want to delete - y or n?

Not deleting the file per your request...
```

File Directory Structure

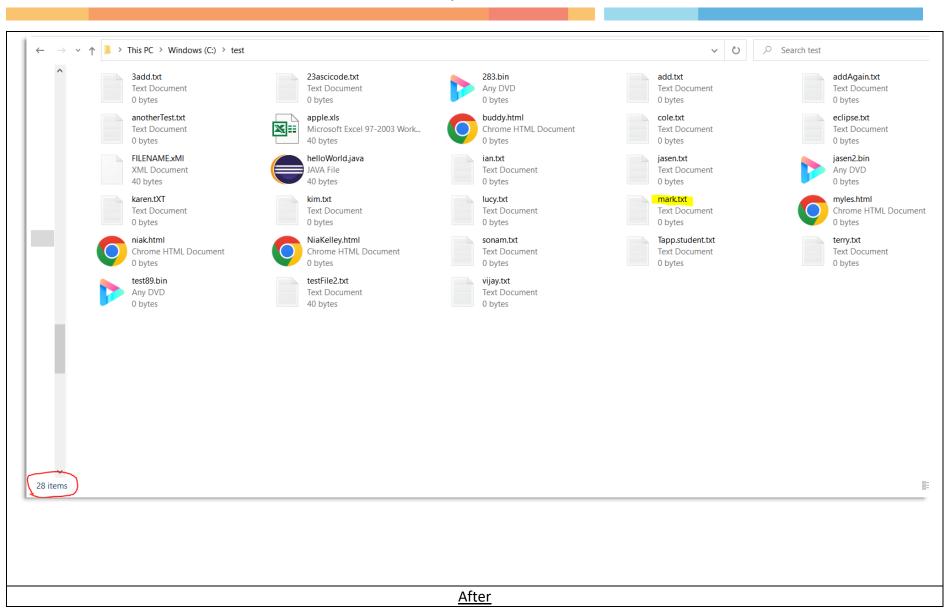
Before

The directory has 28 files

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

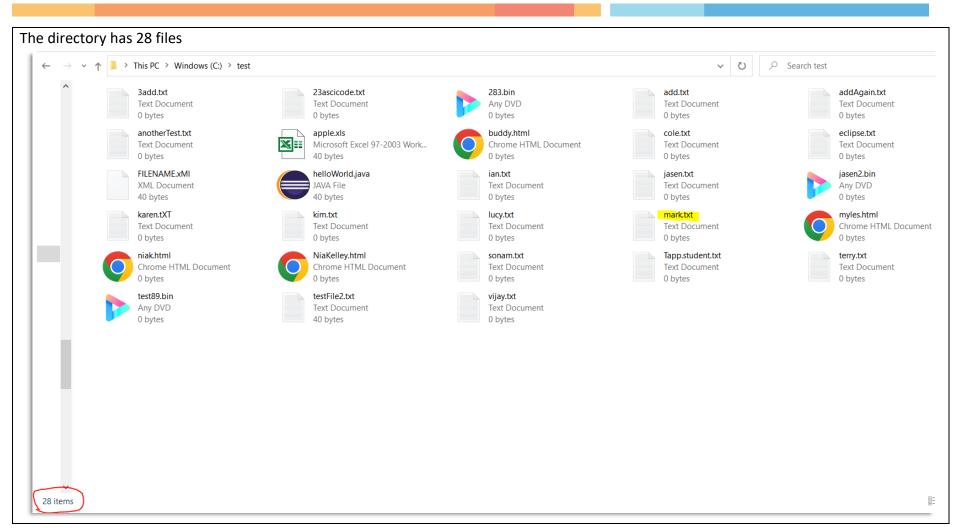
Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester

Summer 2022

Test Case Output

Test Case Scenario: Search for File

Expected Result: The User is prompted for a file name to search for. The application will conduct a case sensitive search on the directory, and a resultant message will be displayed on the console.

Outcome: Pass Test Case Input:

- 3
- apple.xls

```
Program Console

. Business Level Options Sub-Menu

1. Add new file
2. Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu

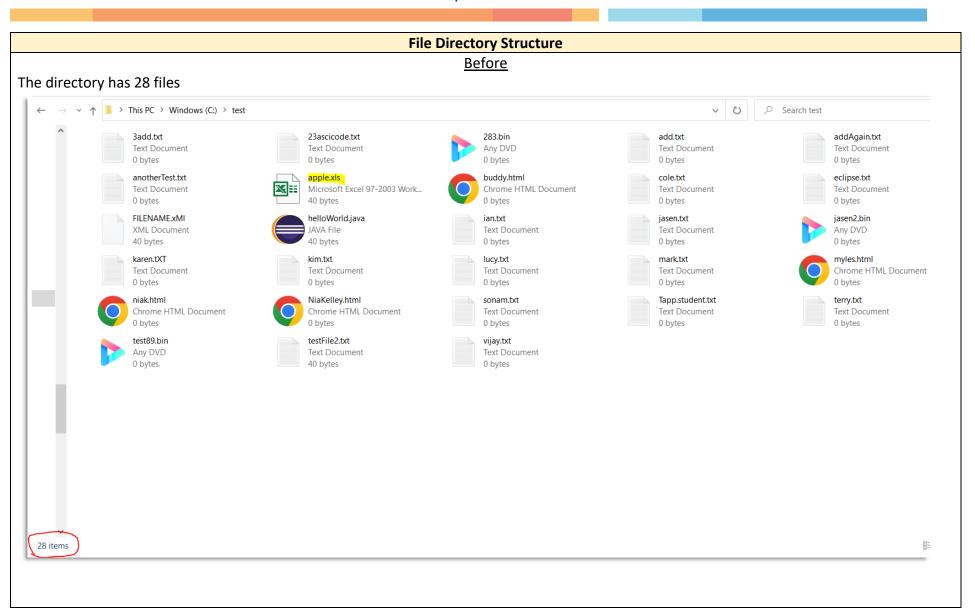
...

Choose your option...
3

Specify the file name to SEARCH from C:\test:
apple.xls
Searching for file: apple.xls
apple.xls already exists in C:\test
```

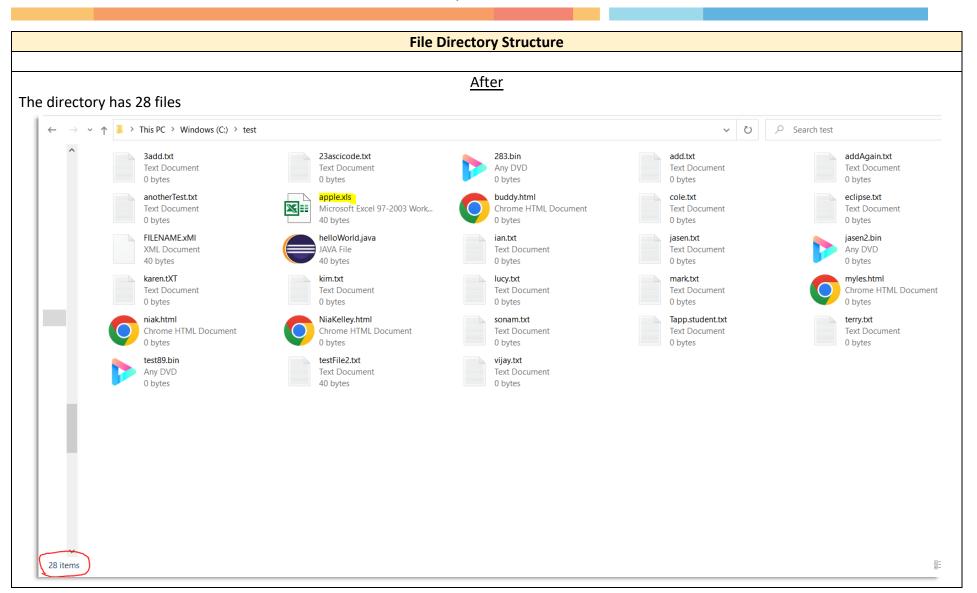
End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Search for File

Expected Result: The User is prompted for a file name to search for. The application will conduct a case sensitive search on the directory, and a resultant message will be displayed on the console.

Outcome: Pass Test Case Input:

• 3

APpLe.XIS

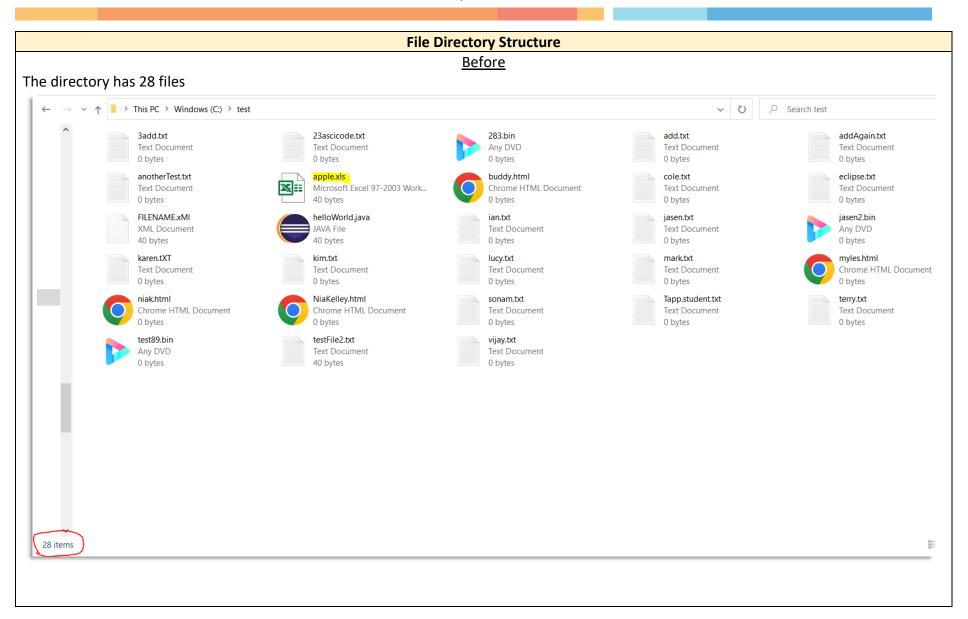
Test Case Output:

Program Console . Business Level Options Sub-Menu 1. Add new file 2. Delete File (case sensisitive) 3. Search for File (case sensisitive) 4. Go back to main menu ... Choose your option... 3 Specify the file name to SEARCH from C:\test: APpLe.XIS Searching for file: APpLe.XIS APpLe.XIS DOES NOT exist in C:\test...

End-of-Phase Project Virtual Keys Repository Prototype Application

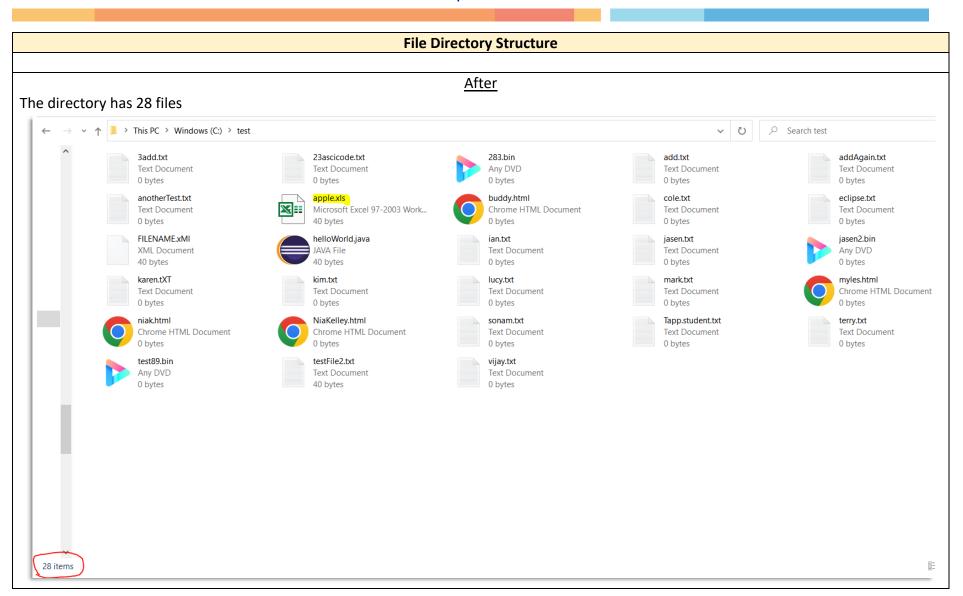
Student: Nia Kelley Jester

Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022



End-of-Phase Project Virtual Keys Repository Prototype Application

Test Case Output

Student: Nia Kelley Jester

Summer 2022

Test Case Scenario: Go Back to Main Menu from Business Level Options Sub-Menu

Expected Result: From the Business Level Options (sub-menu), the User can select "4 – go back to main menu" to return to the Main Menu.

Outcome: Pass Test Case Input: 4 Test Case Output:

Program Console		
. Business Level Options Sub-Menu .		
 Add new file Delete File (case sensisitive) Search for File (case sensisitive) Go back to main menu 		
Choose your option 4 You specified the following target directory: C:\test **********************************		
* MAIN MENU * ********************************		
 Display the current file names in ASCENDENING order Open Business Level Operations Menu Close the application ************************************		
Choose your option		

End-of-Phase Project Virtual Keys Repository Prototype Application

Test Case Output

Student: Nia Kelley Jester

Summer 2022

Test Case Scenario: Exit Program from Main Menu

Expected Result: The User can use option "3 – Close the application" to gracefully terminate the application.

Outcome: Pass Test Case Input: 3 Test Case Output:

```
Program Console
 terminated> VirtualKey [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe(Jul 3, 2022, 1:27:12 PM – 2:57:18 PM) [pid: 32608
apple.xls
Searching for file: apple.xls
apple.xls already exists in C:\test
  Business Level Options Sub-Menu
1. Add new file
2. Delete File (case sensisitive)
Search for File (case sensisitive)
4. Go back to main menu
Choose your option...
Specify the file name to SEARCH from C:\test:
Searching for file: APpLe.X1S
APpLe.XIS DOES NOT exist in C:\test...
     Business Level Options Sub-Menu
1. Add new file
4. Go back to main menu
Choose your option...
MAIN MENU
1. Display the current file names in ASCENDENING order
2. Open Business Level Operations Menu
Choose your option...
Selected main menu option: 3
Closing application...
```

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester
Summer 2022

Test Case Output

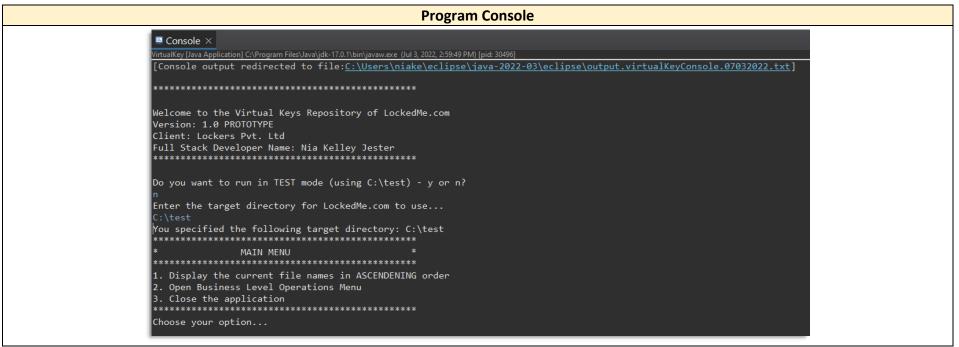
Test Case Scenario: Launch Program – User-Specified Directory

Expected Result: When the application launches, the User can specify a directory to use for the application (i.e., not running in Test mode). The User can enter "N' or "n" when asked if you want to run the application in Test mode. the application will ask the User to enter a directory for the application. The application will display a message on the console specifying the target directory being used.

Outcome: Pass Test Case Input:

- n
- C:\test

Test Case Output:



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester
Summer 2022

Test Case Output

Functional Test Cases - Exception Handling

Test Case Scenario: Launch Program – User-Specified Directory – Non-valid Input

Expected Result: When the application launches, the User can specify a directory to use for the application (i.e., not running in Test mode). The User enters an invalid question, and the application will terminate.

Outcome: Pass - Handled exception as designed

Test Case Input: p
Test Case Output:

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Non-valid Main Menu option

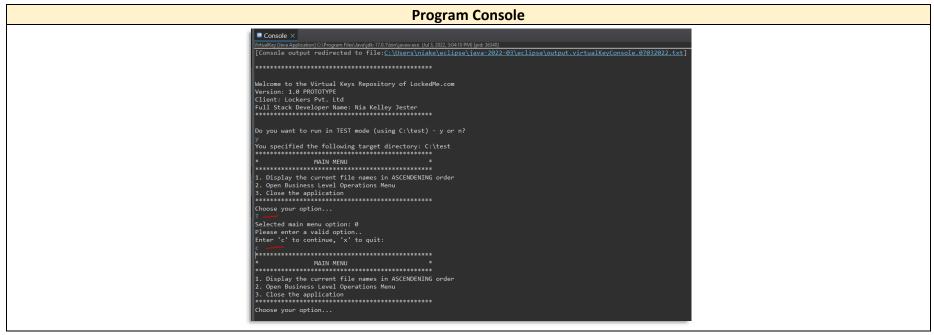
Expected Result: User enters an invalid data for the Main Menu option. The program will indicate that the User entered invalid data and gives the User the option to continue with program execution. The User will be presented with the option to continue or quit the application. The program will accept "C" or "c" to continue the program or "X" or "x" to terminate the application. If the User enters "C" or "c", the application will display the main menu.

Outcome: Pass - Handled exception as designed

Test Case Input:

- T
- C

Test Case Output:



End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Non-valid Main Menu option

Expected Result: User enters an invalid data for the Main Menu option. The program will indicate that the User entered invalid data and gives the User the option to continue with program execution. The User will be presented with the option to continue or quit the application. The program will accept "C" or "c" to continue the program or "X" or "x" to terminate the application. If the User enters "C" or "c", the application will display the main menu.

Outcome: Pass - Handled exception as designed

Test Case Input:

- 978
- C

Test Case Output:

```
Program Console
****************
1. Display the current file names in ASCENDENING order
2. Open Business Level Operations Menu
3. Close the application
*****************
Choose your option...
Selected main menu option: 978
Please enter a valid option..
Enter 'c' to continue, 'x' to quit:
             MAIN MENU
1. Display the current file names in ASCENDENING order
2. Open Business Level Operations Menu
3. Close the application
****************
Choose your option...
```

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Non-valid Main Menu option

Expected Result: User enters an invalid data for the Main Menu option. The program will indicate that the User entered invalid data and gives the User the option to continue with program execution. The User will be presented with the option to continue or quit the application. The program will accept "C" or "c" to continue the program or "X" or "x" to terminate the application. If the User enters "C" or "c", the application will display the main menu.

Outcome: Pass - Handled exception as designed

Test Case Input:

- 3!
- C

Test Case Output:

```
Program Console
***************
****************
1. Display the current file names in ASCENDENING order
2. Open Business Level Operations Menu
3. Close the application
Choose your option...
Selected main menu option: 0
Please enter a valid option..
Enter 'c' to continue, 'x' to quit:
**************
***************
1. Display the current file names in ASCENDENING order
2. Open Business Level Operations Menu
Close the application
****************
Choose your option...
```

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Non-valid Business Options Sub-Menu option

Expected Result: User enters an invalid data for the Business Level Options sub-menu. The program will indicate that the User entered invalid data, displays an error message, displays the menu again, and gives the User another opportunity to make a selection.

Outcome: Pass - Handled exception as designed

Test Case Input: P
Test Case Output:

```
Program Console

. Business Level Options Sub-Menu

1. Add new file
2. Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu

. Choose your option...

P You entered invalid input! Try again..

Business Level Options Sub-Menu

1. Add new file
2. Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu

Choose your option...
```

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Non-valid Business Options Sub-Menu option

Expected Result: User enters an invalid data for the Business Level Options sub-menu. The program will indicate that the User entered invalid data, displays an error message, displays the menu again, and gives the User another opportunity to make a selection.

Outcome: Pass - Handled exception as designed

Test Case Input: 99
Test Case Output:

Program Console Business Level Options Sub-Menu 1. Add new file 2. Delete File (case sensisitive) 3. Search for File (case sensisitive) 4. Go back to main menu Choose your option... Please enter a valid option... Business Level Options Sub-Menu Add new file Delete File (case sensisitive) Search for File (case sensisitive) 4. Go back to main menu Choose your option...

End-of-Phase Project Virtual Keys Repository Prototype Application

Student: Nia Kelley Jester Summer 2022

Test Case Output

Test Case Scenario: Non-valid Business Options Sub-Menu option

Expected Result: User enters an invalid data for the Business Level Options sub-menu. The program will indicate that the User entered invalid data, displays an error message, displays the menu again, and gives the User another opportunity to make a selection.

Outcome: Pass - Handled exception as designed

Test Case Input: 3!
Test Case Output:

```
Program Console

. Business Level Options Sub-Menu

1. Add new file
2. Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu

Choose your option...
3!

You entered invalid input! Try again...

Business Level Options Sub-Menu

1. Add new file
2. Delete File (case sensisitive)
3. Search for File (case sensisitive)
4. Go back to main menu

Choose your option...
```