

```
Please select an option from the menu below
1. Select directory
2. List directory content (first level)
3. List directory content (all levels)
4. Delete file
5. Display file (hexadecimal view)
6. Encrypt file (XOR with password)
7. Decrypt file (XOR with password)
Q. Quit program
2
A directory has not been selected, please select one (option 1) before continuing

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```

Figure 1. Test case #1. Options 2-5 when a directory has not been selected.

```
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Q. Quit program
7
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7. Decrypt file (XOR with password)
Q. Quit program
this is invalid input
That was not a valid selection, please try again

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7. Decrypt file (XOR with password)
Q. Quit program
q
Exiting program
```

Figure 2. Test case #2. Options 6&7 when no directory has been selected. Also testing invalid input and quitting the program.

```

1
Please enter the directory:
C:\Users\munki\Documents\Java\Homework6\Homework 6.pdf
"C:\Users\munki\Documents\Java\Homework6\Homework 6.pdf" is a file and not a valid directory. Please enter a valid one:
C:\Users\munki\Documents\Java\Homewor
"C:\Users\munki\Documents\Java\Homewor" is not a valid file path. Please enter a valid one:
C:\Users\munki\Documents\Java\Homework6

Valid path: Directory is now C:\Users\munki\Documents\Java\Homework6

```

Figure 3. Test case #3. Showing how invalid and valid input are handled in option one.

```

2
The files in the first level of : "C:\Users\munki\Documents\Java\Homework6" are:

build
build.xml
Delete - Copy.txt
Delete.txt
Homework 6.pdf
manifest.mf
nbproject
src
test

Please select an option from the menu below

```

Figure 4. Test case #4. Showing all files/folders within the first level of the given directory.

```

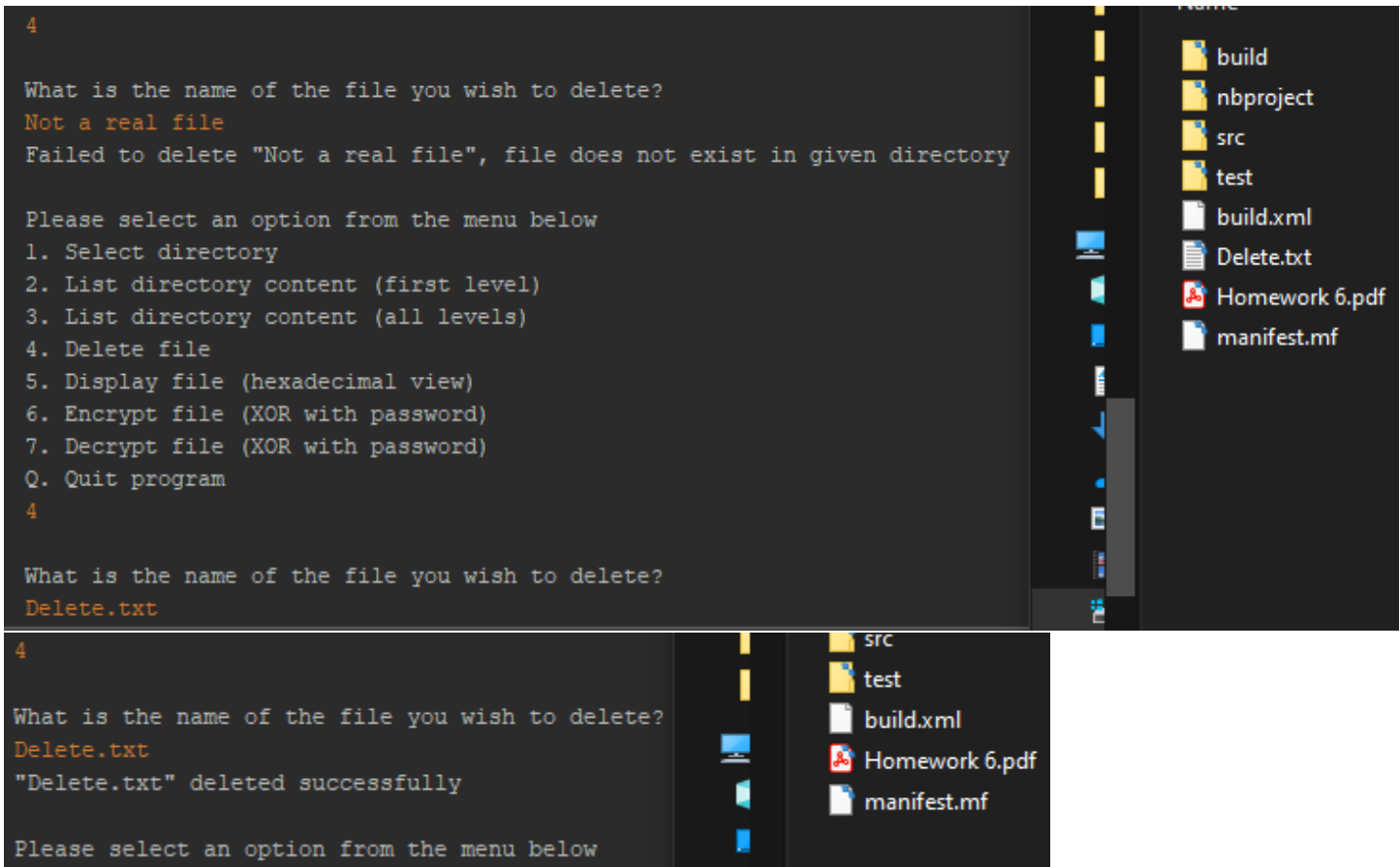
3
The files in all levels of : "C:\Users\munki\Documents\Java\Homework6" are:

C:\Users\munki\Documents\Java\Homework6\build\classes\.netbeans_automatic_build
C:\Users\munki\Documents\Java\Homework6\build\classes\.netbeans_update_resources
C:\Users\munki\Documents\Java\Homework6\build\classes\Homework6.class
C:\Users\munki\Documents\Java\Homework6\build.xml
C:\Users\munki\Documents\Java\Homework6\Delete.txt
C:\Users\munki\Documents\Java\Homework6\Homework 6.pdf
C:\Users\munki\Documents\Java\Homework6\manifest.mf
C:\Users\munki\Documents\Java\Homework6\nbproject\build-impl.xml
C:\Users\munki\Documents\Java\Homework6\nbproject\genfiles.properties
C:\Users\munki\Documents\Java\Homework6\nbproject\private\private.properties
C:\Users\munki\Documents\Java\Homework6\nbproject\private\private.xml
C:\Users\munki\Documents\Java\Homework6\nbproject\project.properties
C:\Users\munki\Documents\Java\Homework6\nbproject\project.xml
C:\Users\munki\Documents\Java\Homework6\src\Homework6.java

Please select an option from the menu below

```

Figure 5. Test case #5. Showing all files/folders in all levels of the given directory.



Figures 6 & 7. Test case #6. Showing how valid and invalid deletion is handled.

5

What is the name of the file you wish to see in hexadecimal view?

Home

"Home" was not found in the directory

Please select an option from the menu below

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3. List directory content (all levels)
4. Delete file
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6. Encrypt file (XOR with password)
7. Decrypt file (XOR with password)
- Q. Quit program

5

What is the name of the file you wish to see in hexadecimal view?

Homework 6.pdf

```

25 50 44 46 2D 31 2E 35 0D 0A 25 B5 B5 B5 B5 0D
0A 31 20 30 20 6F 62 6A 0D 0A 3C 3C 2F 54 79 70
65 2F 43 61 74 61 6C 6F 67 2F 50 61 67 65 73 20
32 20 30 20 52 2F 4C 61 6E 67 28 65 6E 2D 55 53
29 20 2F 53 74 72 75 63 74 54 72 65 65 52 6F 6F
74 20 33 32 20 30 20 52 2F 4D 61 72 6B 49 6E 66
6F 3C 3C 2F 4D 61 72 6B 65 64 20 74 72 75 65 3E
3E 3E 3E 0D 0A 65 6E 64 6F 62 6A 0D 0A 32 20 30
20 6F 62 6A 0D 0A 3C 3C 2F 54 79 70 65 2F 50 61
67 65 73 2F 43 6F 75 6E 74 20 33 2F 4B 69 64 73
5B 20 33 20 30 20 52 20 31 38 20 30 20 52 20 32
32 20 30 20 52 5D 20 3E 3E 0D 0A 65 6E 64 6F 62
6A 0D 0A 33 20 30 20 6F 62 6A 0D 0A 3C 3C 2F 54
79 70 65 2F 50 61 67 65 2F 50 61 72 65 6E 74 20
32 20 30 20 52 2F 52 65 73 6F 75 72 63 65 73 3C
3C 2F 46 6F 6E 74 3C 3C 2F 46 31 20 35 20 30 20
52 2F 46 32 20 39 20 30 20 52 2F 46 33 20 31 31
20 30 20 52 2F 46 34 20 31 33 20 30 20 52 3E 3E
2F 45 78 74 47 53 74 61 74 65 3C 3C 2F 47 53 37
20 37 20 30 20 52 2F 47 53 38 20 38 20 30 20 52
3E 3E 2F 50 72 6F 63 53 65 74 5B 2F 50 44 46 2F
54 65 78 74 2F 49 6D 61 67 65 42 2F 49 6D 61 67
65 43 2F 49 6D 61 67 65 49 5D 20 3E 3E 2F 4D 65
64 69 61 42 6F 78 5B 20 30 20 30 20 35 39 35 2E
34 34 20 38 34 31 2E 36 38 5D 20 2F 43 6F 6E 74
65 6E 74 73 20 34 20 30 20 52 2F 47 72 6F 75 70
3C 3C 2F 54 79 70 65 2F 47 72 6F 75 70 2F 53 2F
41 37 32 33 34 32 36 36 44 42 30 44 43 46 45 3E
3C 38 36 37 33 37 38 44 34 34 42 32 32 41 38 34
36 42 41 37 32 33 34 32 36 36 44 42 30 44 43 46
45 3E 5D 20 2F 50 72 65 76 20 32 30 31 35 36 30
2F 58 52 65 66 53 74 6D 20 32 30 31 30 34 34 3E
3E 0D 0A 73 74 61 72 74 78 72 65 66 0D 0A 32 30
34 33 34 30 0D 0A 25 25 45 4F 46

```

Please select an option from the menu below

Figures 8 & 9. Test case #7. Invalid and valid selections for displaying a file in hexadecimal.

```

6

What is the name of the file you wish to encrypt?
Invalid file name
"Invalid file name" was not found in the current directory

Please select an option from the menu below
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7. Decrypt file (XOR with password)
Q. Quit program
6

What is the name of the file you wish to encrypt?
Homework 6.pdf
Please enter a password to encrypt the file:

Password was too long or left blank, please try again:
thispasswordistoolongthispasswordistoolongthispasswordistoolongthispasswordistoolongthispasswordistoolongthispasswordistoolongthispasswordistoolongthispasswordis
Password was too long or left blank, please try again:
valid password
Please choose a name for the encrypted file
昨日すき焼きを食べました
Invalid name for outgoing file. Unable to write it.

```

Figure 10. Test case #8. Invalid selections for encrypting a file and choosing a password. Also shows how invalid output file names are handled.

```

Q. Quit program
6

What is the name of the file you wish to encrypt?
Homework 6.pdf
Please enter a password to encrypt the file:
Qwertyuiop[1234567]
Please choose a name for the encrypted file
Encrypted.pdf
File encrypted successfully

Please select an option from the menu below
1. Select directory
2. List directory content (first level)

```

File Name	Date/Time	Application
Encrypted.pdf	4/19/2021 4:52 PM	Adobe Acrobat D...
Homework 6.pdf	3/10/2021 10:46 PM	Adobe Acrobat D...

Acrobat Reader

Adobe Acrobat Reader could not open 'Encrypted.pdf' because it is either not a supported file type or because the file has been damaged (for example, it was sent as an email attachment and wasn't correctly decoded).

OK

Figure 11. Test case #9. Successful creation of encrypted file and showing how it can't be read properly.

```

5. Display file (hexadecimal view)
6. Encrypt file (XOR with password)
7. Decrypt file (XOR with password)
Q. Quit program
7

What is the name of the file you wish to decrypt?
Encrypted.pdf
Please enter a password to decrypt the file:
This is the wrong password
Please choose a name for the decrypted file
Failed Decryption (wrong password).pdf
No errors in decrypting attempt, if password was valid the file will open properly

Please select an option from the menu below

```

Acrobat Reader

Adobe Acrobat Reader could not open 'Failed Decryption (wrong password).pdf' because it is either not a supported file type or because the file has been damaged (for example, it was sent as an email attachment and wasn't correctly decoded).

OK

Figure 12. Test case #10. Failed decryption of file leads to the file being unreadable.

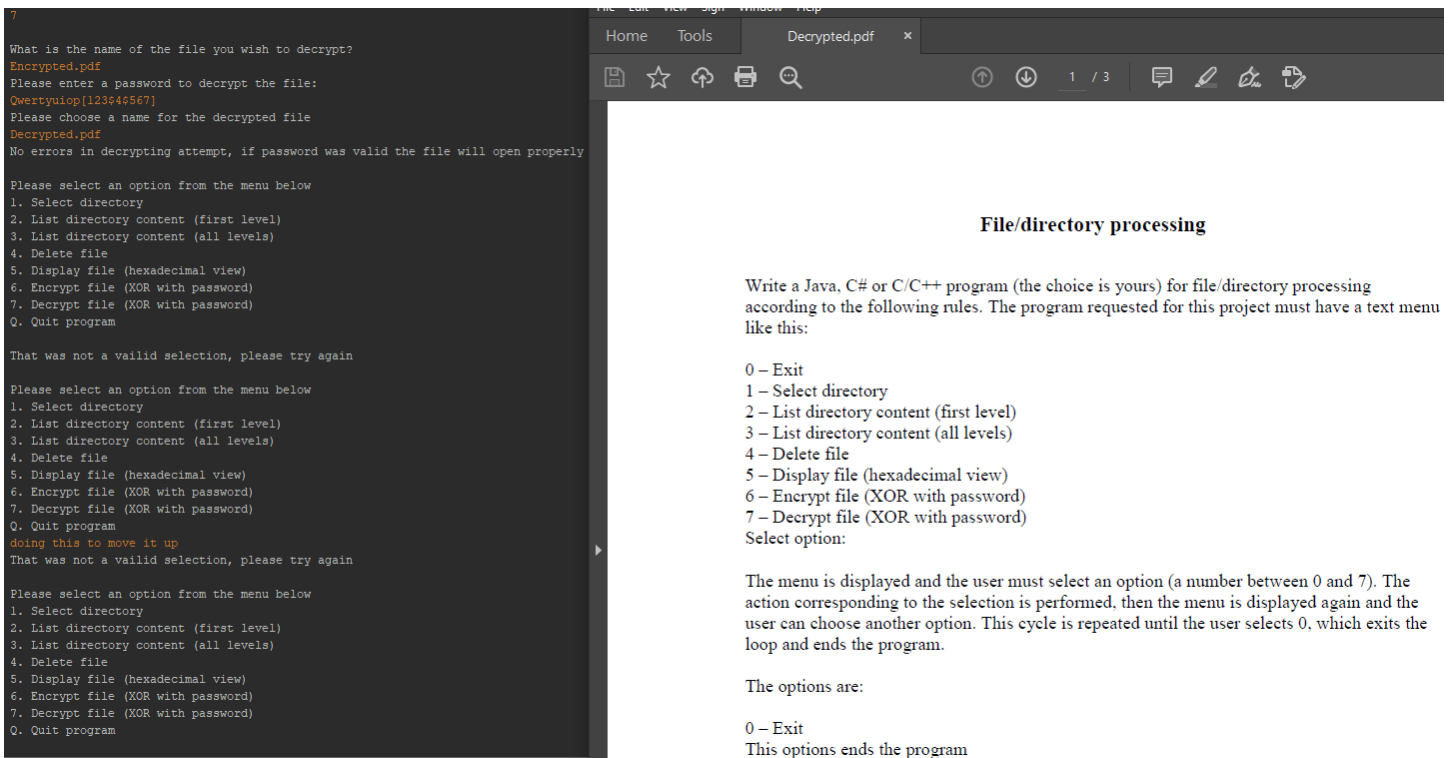


Figure 13. Test case #11. Successful decryption of file leads to a copy of the original file.