Password Manager

By
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Intention and goals

- It is crucial for people to have passwords but remembering them for every website is tricky
- We would like to provide people an opportunity to remember one complex password that will provide access to a collection of all their usernames and passwords.
- Our aim was to create a password management system that would securely store all of a users passwords.

Process

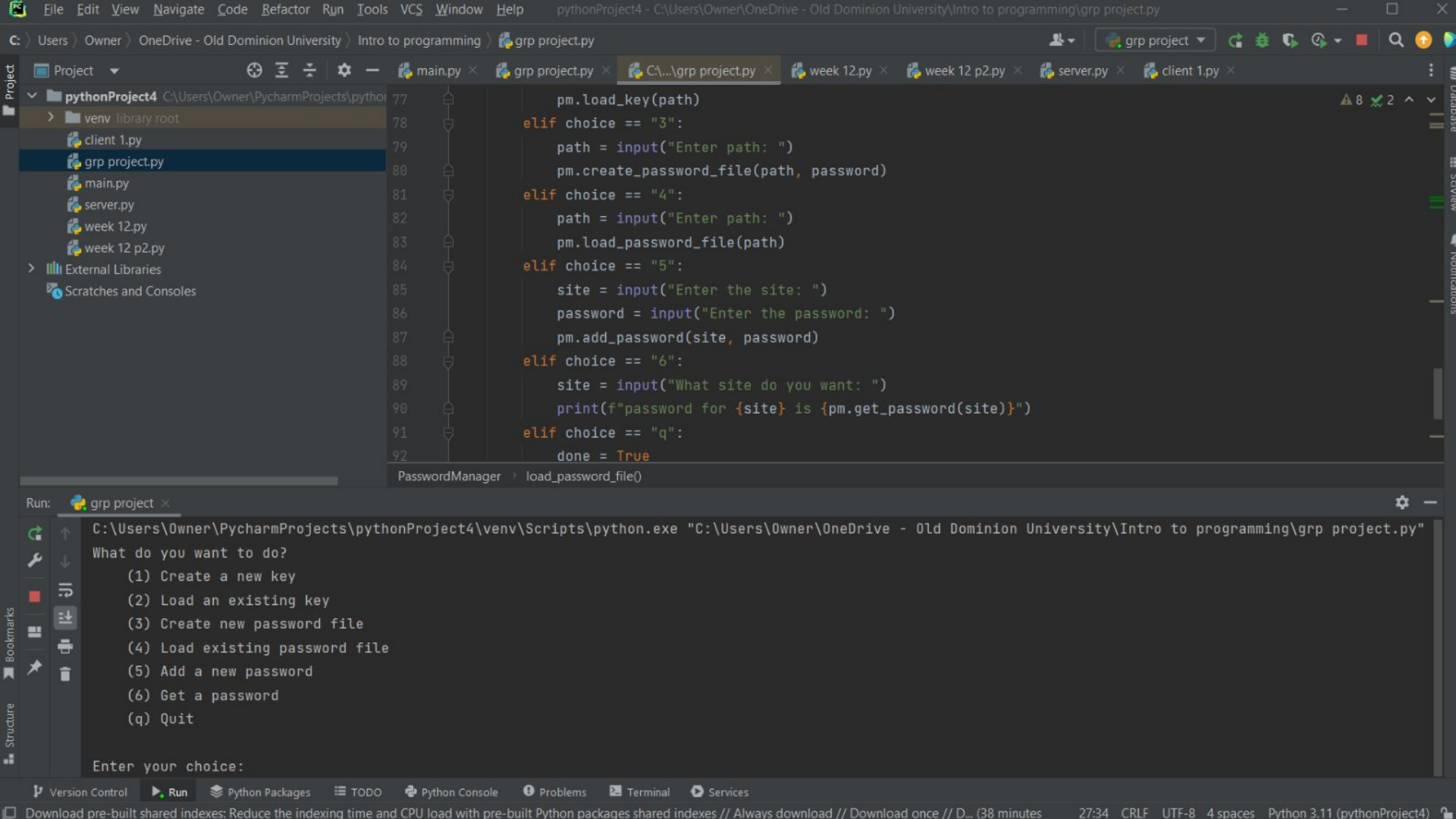
- Due to our inexperience we consulted the internet for assistance, finding a youtube video by Neural Nine
- We had to download the fernet cryptography package and import it into the code
- We established a key, file path, and dictionary
- We then created variables to use, created if statements, and used print statements and input commands to collect input from the user.

Trials and Tribulations

- While implementing and creating different functions, we ran into the realization that the code would ultimately not run without downloaded a specific cisco packet called cryptography.
- Indentation errors also played a part in our struggle as the longer the code went on the more prone you are to simple mistakes.
- After fixing these few mistakes we were able to get the code running.

Results

- A program that gives users 7 initial options to choose from the executes code according to user input.
- The user has the option of creating a key, creating a password file, and creating a link for a website and password.
- It then provides the same query and stores the user's inputs until the user quits the program by inputting q.


File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject4 - C:\Users\Owner\OneDrive - Old Dominion University\Intro to programming\grp project.py
C: Users Owner OneDrive - Old Dominion University Intro to programming grp project.py
grp project
Project
main.py
grp project.py
C:\...\grp project.py
week 12.py
week 12 p2.py
server.py
client 1.py
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venv library root
client 1.py
grp project.py
main.py
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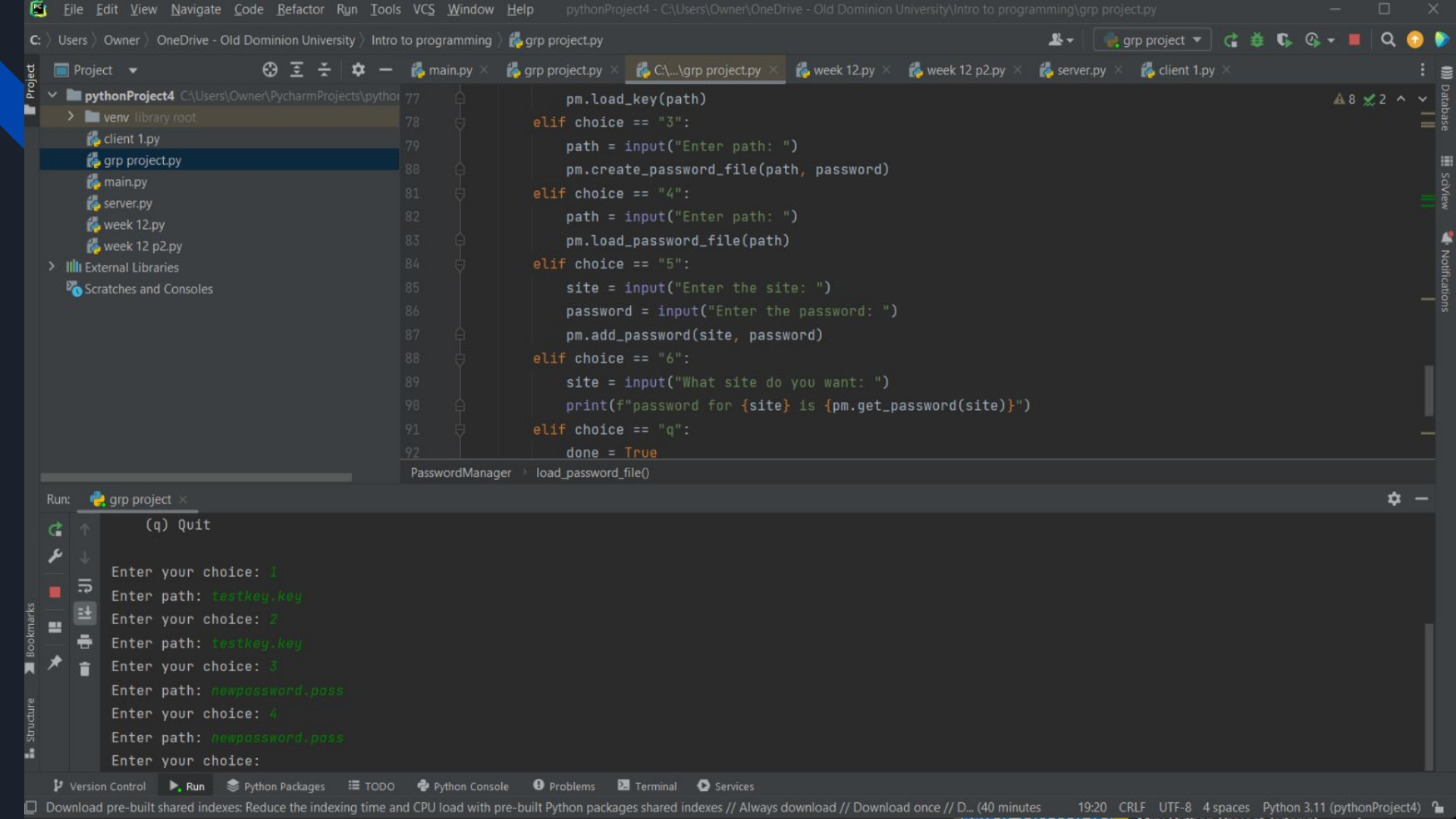
week 12.py
week 12 p2.py
External Libraries
Scratches and Consoles
77 pm.load_key(path)
78 elif choice == "3":
79 path = input("Enter path: ")
80 pm.create_password_file(path, password)
81 elif choice == "4":
82 path = input("Enter path: ")
83 pm.load_password_file(path)
84 elif choice == "5":
85 site = input("Enter the site: ")
86 password = input("Enter the password: ")
87 pm.add_password(site, password)
88 elif choice == "6":
89 site = input("What site do you want: ")
90 print(f"password for {site} is {pm.get_password(site)}")
91 elif choice == "q":
92 done = True
PasswordManager load_password_file()
Run: grp project
C:\Users\Owner\PycharmProjects\pythonProject4\venv\Scripts\python.exe "C:\Users\Owner\OneDrive - Old Dominion University\Intro to programming\grp project.py"
What do you want to do?
(1) Create a new key
(2) Load an existing key
(3) Create new password file
(4) Load existing password file
(5) Add a new password
(6) Get a password
(q) Quit
Enter your choice:
Version Control Run Python Packages TODO Python Console Problems Terminal Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // D... (38 minutes
27:34 CRLF UTF-8 4 spaces Python 3.11 (pythonProject4)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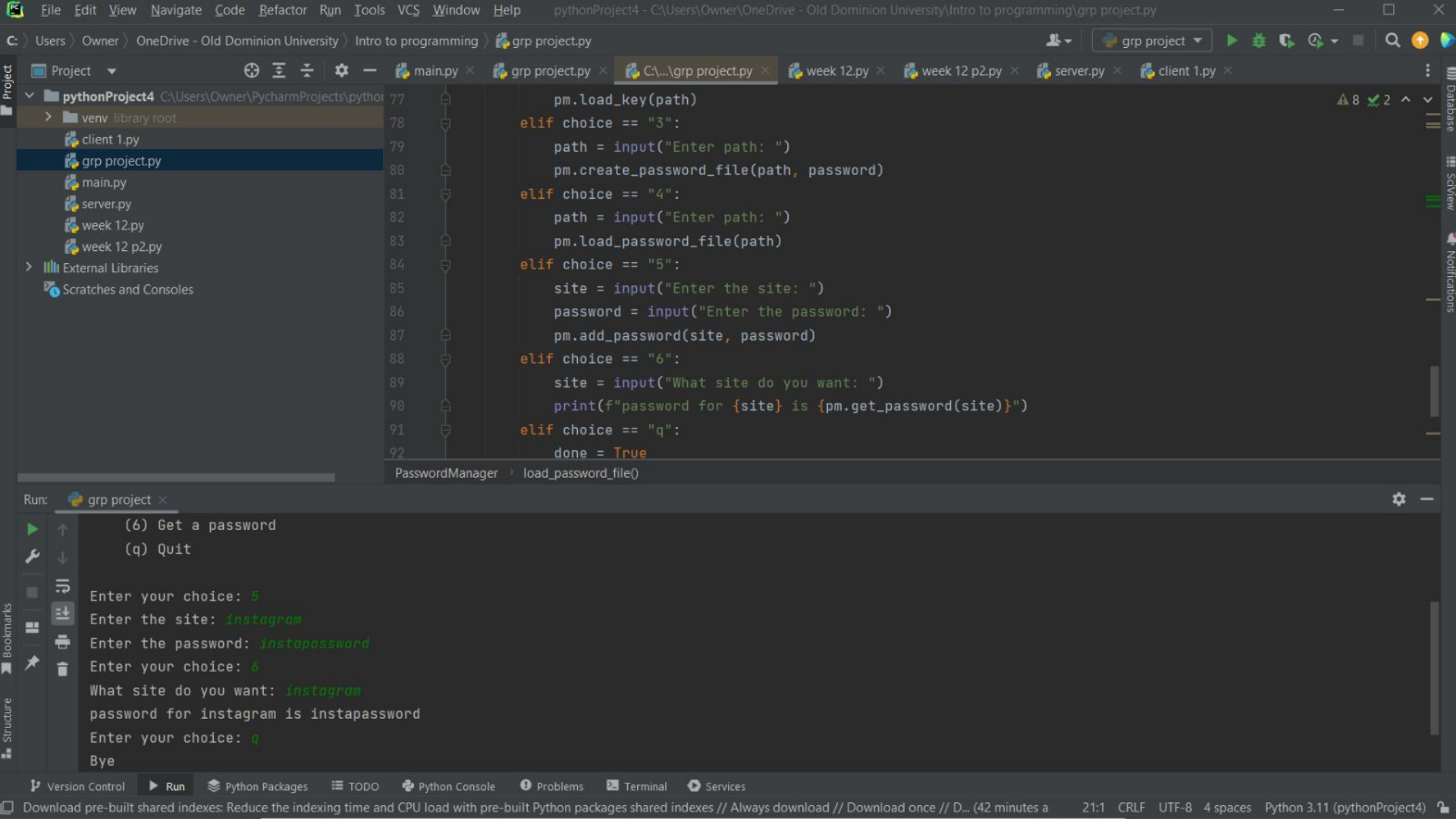
8 2
PasswordManager load_password_file()
Run: grp project
(q) Quit
Enter your choice: 1
Enter path: testkey.key
Enter your choice: 2
Enter path: testkey.key
Enter your choice: 3
Enter path: newpassword.pass
Enter your choice: 4
Enter path: newpassword.pass
Enter your choice:
Version Control Run Python Packages TODO Python Console Problems Terminal Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // D... (40 minutes
19:20 CRLF UTF-8 4 spaces Python 3.11 (pythonProject4)
Database
SciView
Notifications
Bookmarks
Structure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PasswordManager load_password_file()
Run: grp project
(6) Get a password
(q) Quit
Enter your choice: 5
Enter the site: instagram
Enter the password: instapassword
Enter your choice: 6
What site do you want: instagram
password for instagram is instapassword
Enter your choice: q
Bye
Version Control Run Python Packages TODO Python Console Problems Terminal Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // D... (42 minutes a
21:1 CRLF UTF-8 4 spaces Python 3.11 (pythonProject4)

Conclusion

Our group was successful in creating a password manager using python version 3.11. Our inspiration for creating the project was crucial in our success along with revising any mistakes made when creating the project.

Though we faced many challenges, we were overall successful in creating an intermediate to low-advanced python code.