Password Manager:

import hashlib

import random

passwords = {}

def generate\_salt():

"""Generate a random salt"""

return str(random.randint(100000, 999999))

def hash\_password(password, salt):

"""Hash the password using SHA-256"""

password = password.encode('utf-8')

salt = salt.encode('utf-8')

hashed\_password = hashlib.sha256(password + salt).hexdigest()

return hashed\_password

def add\_password():

"""Add a new password to the password manager"""

website = input("Website: ")

username = input("Username: ")

password = input("Password: ")

salt = generate\_salt()

hashed\_password = hash\_password(password, salt)

passwords[website] = {"username": username, "password": hashed\_password, "salt": salt}

def get\_password():

"""Get a password from the password manager"""

website = input("Website: ")

if website in passwords:

username = passwords[website]["username"]

salt = passwords[website]["salt"]

hashed\_password = passwords[website]["password"]

password = input("Master password: ")

if hash\_password(password, salt) == hashed\_password:

print(f"Username: {username}")

print(f"Password: {password}")

else:

print("Incorrect master password")

else:

print("Website not found")

while True:

print("1. Add password")

print("2. Get password")

print("3. Exit")

choice = int(input("Enter your choice: "))

if choice == 1:

add\_password()

elif choice == 2:

get\_password()

elif choice == 3:

break

else:

print("Invalid choice")

Notes Manager:

notes = {}

def add\_note():

"""Add a new note to the notes manager"""

title = input("Title: ")

content = input("Content: ")

notes[title] = content

def view\_note():

"""View a note from the notes manager"""

title = input("Title: ")

if title in notes:

print(f"Title: {title}")

print(f"Content: {notes[title]}")

else:

print("Note not found")

def delete\_note():

"""Delete a note from the notes manager"""

title = input("Title: ")

if title in notes:

del notes[title]

print("Note deleted")

else:

print("Note not found")

while True:

print("1. Add note")

print("2. View note")

print("3. Delete note")

print("4. Exit")

choice = input("Enter your choice: ")

if choice == "1":

add\_note()

elif choice == "2":

view\_note()

elif choice == "3":

delete\_note()

elif choice == "4":

break

else:

print("Invalid choice")