Global Academy of Technology

Department of Computer Science and Engineering

Report

On

PYTHON PROJECT

VI Semester

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Group No.: 03

Title: PASSWORD GENERATOR

USN	Name	Signature
1GA16CS033	ASHUTOSH RANJAN	
1GA16CS034	AYUSH DHAR	

Guide:
SHYAM SUNDER BHUSHAN
Professor
Dept of CSE

Objective of the Project

The Password Generator generates a random password of any desired length and also stores it in a separate file. In this project the random passwords that are generated has been developed and implemented using the Python language. Python offers multiple options and modules for developing various projects.

The main objective of this project is to make best use of various methods provided by the Python language and to execute the code successfully.

System Requirement Specification

Software Requirements Specification

- ✓ Language used: Python
- ✓ IDE/Compiler used: PyCharm
- ✓ OS used: Windows10

Hardware Requirements Specification

- ✓ Processor   : 2.5 GHz
- ✓ System   : Intel i5
- ✓ Hard Disk   : 1024 GB
- ✓ Monitor   : 15 VGA color
- ✓ Mouse   : Logitech
- ✓ Keyboard   : 102 keys enhanced

Source Code

Code for Generating Random Passwords

```python
import random
import pickle


dicti={}

with open("pass.me", "rb") as readme:
    dicti=pickle.load(readme)
#print(dicti)

x=
"abcdefghijklmnopqrstuvwxyz1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ!@#$%&?"

lenpass=int(input("Enter desired length\n"))
password= "".join(random.sample(x,lenpass))

print("Your password is: "+password)

prompt=input("\nWould you like to keep this password?\n\nPress 1 for YES otherwise 2\n")

if("1" in prompt):
    accountinfo=input("\nEnter the account name for which you want to create a password\n")

    dicti[accountinfo]=password

    with open("pass.me","wb") as myfile:
        pickle.dump(dicti,myfile,protocol=3)

else:
    print("Run Again")
```

Code for Fetching Password
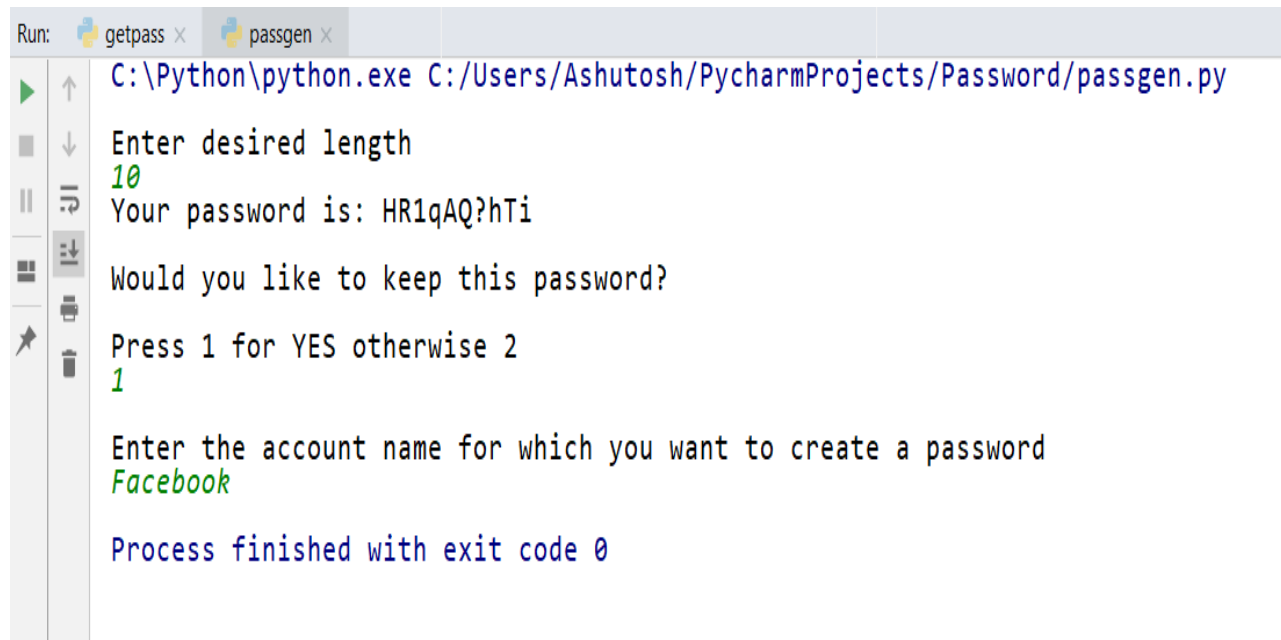
```python
import getpass
import pickle

masterpass= input("Enter Your Master Password\n")

if masterpass=="12345":
  acc_name=input("Enter Your Account Name\n")

  with open("pass.me", "rb") as readme:
    dicti=pickle.load(readme)

  if acc_name in dicti:
    password=getpass.dicti[acc_name]
    print("\nPassword= ",password)
    exit(0)
  else:
    print("\nInformation is incorrect\n")
    exit(0)
```
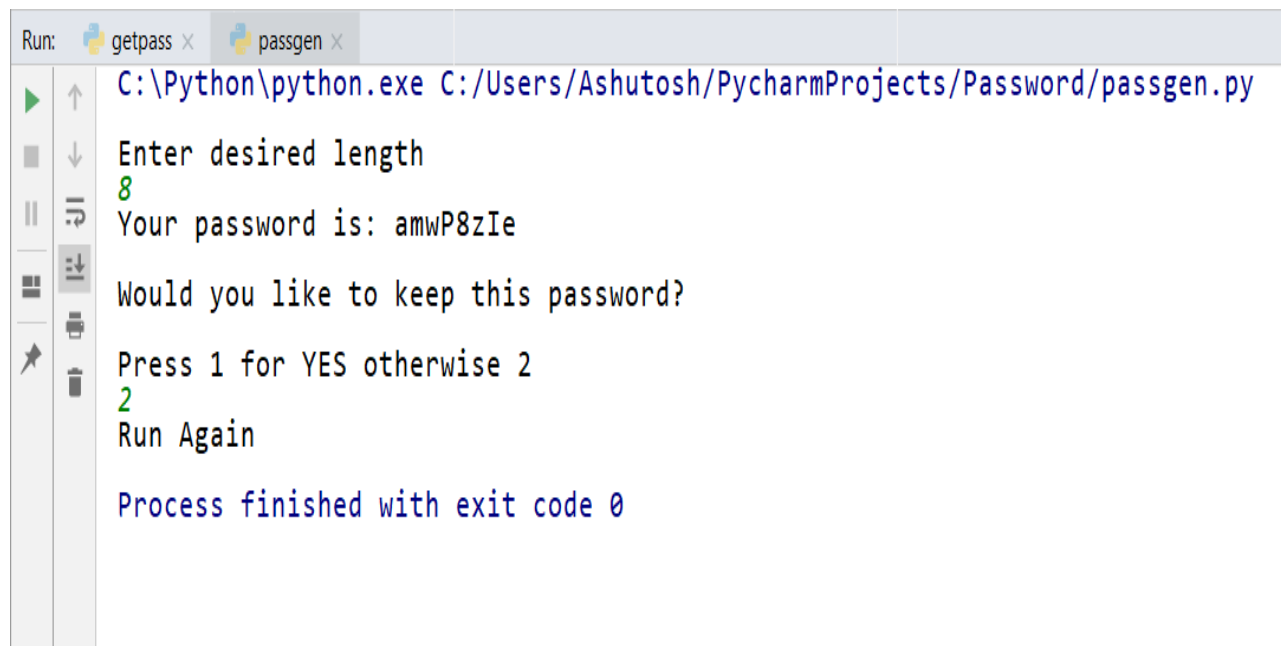
Snapshots

```
Run:    getpass ×    passgen ×
►  ↑   C:\Python\python.exe C:/Users/Ashutosh/PycharmProjects/Password/passgen.py

■  ↓   Enter desired length
       10
॥  ⇥   Your password is: HR1qAQ?hTi

   ⬇   Would you like to keep this password?

⚹  ⬆   Press 1 for YES otherwise 2
       1

       Enter the account name for which you want to create a password
       Facebook

       Process finished with exit code 0
```
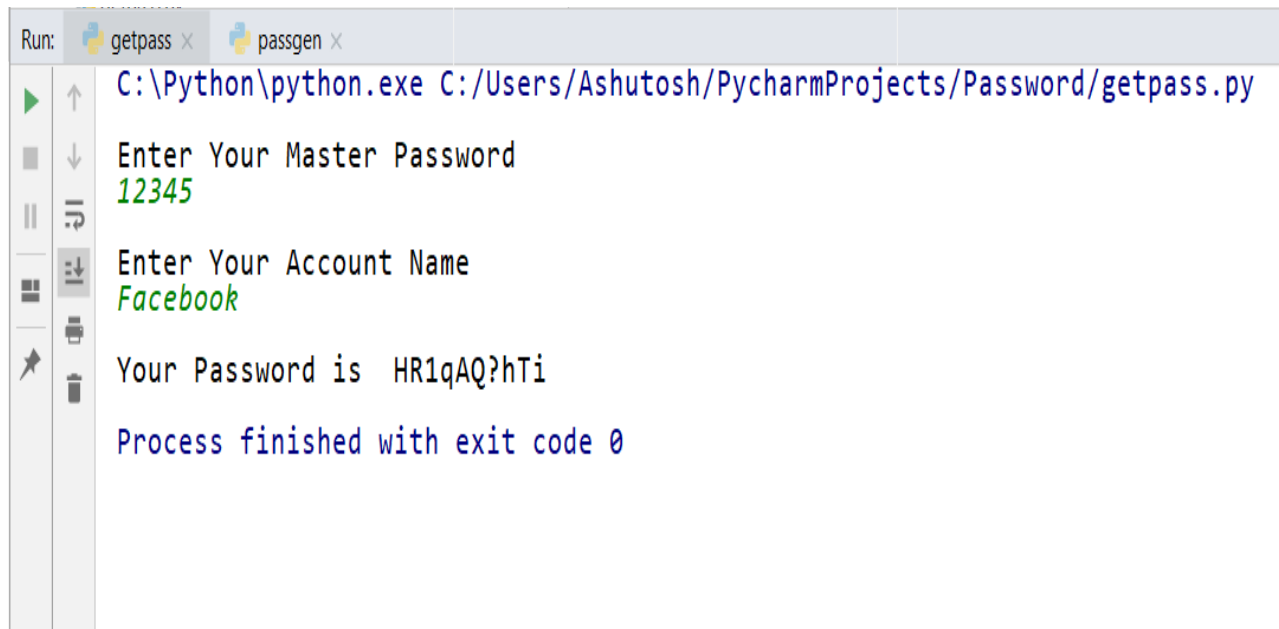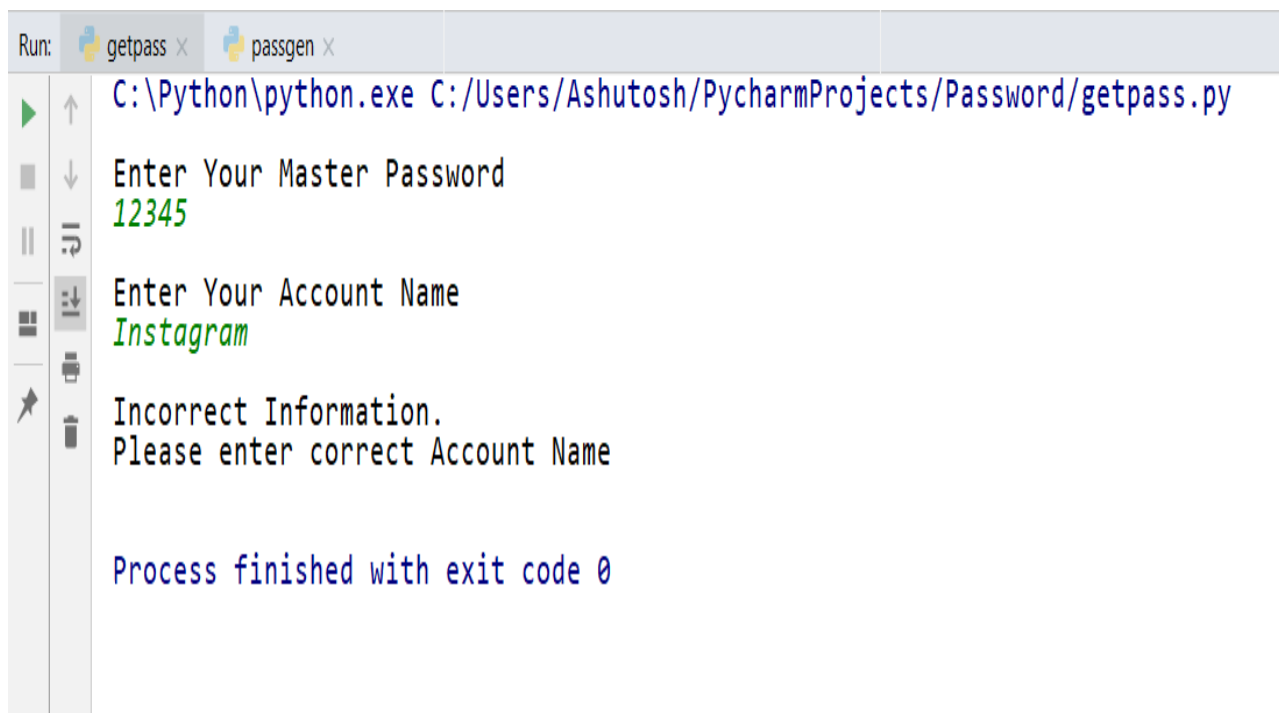
Fig 1: Random password generated

```
Run:    getpass ×    passgen ×
►  ↑   C:\Python\python.exe C:/Users/Ashutosh/PycharmProjects/Password/passgen.py

■  ↓   Enter desired length
       8
॥  ⇥   Your password is: amwP8zIe

   ⬇   Would you like to keep this password?

⚹  ⬆   Press 1 for YES otherwise 2
       2
       Run Again

       Process finished with exit code 0
```
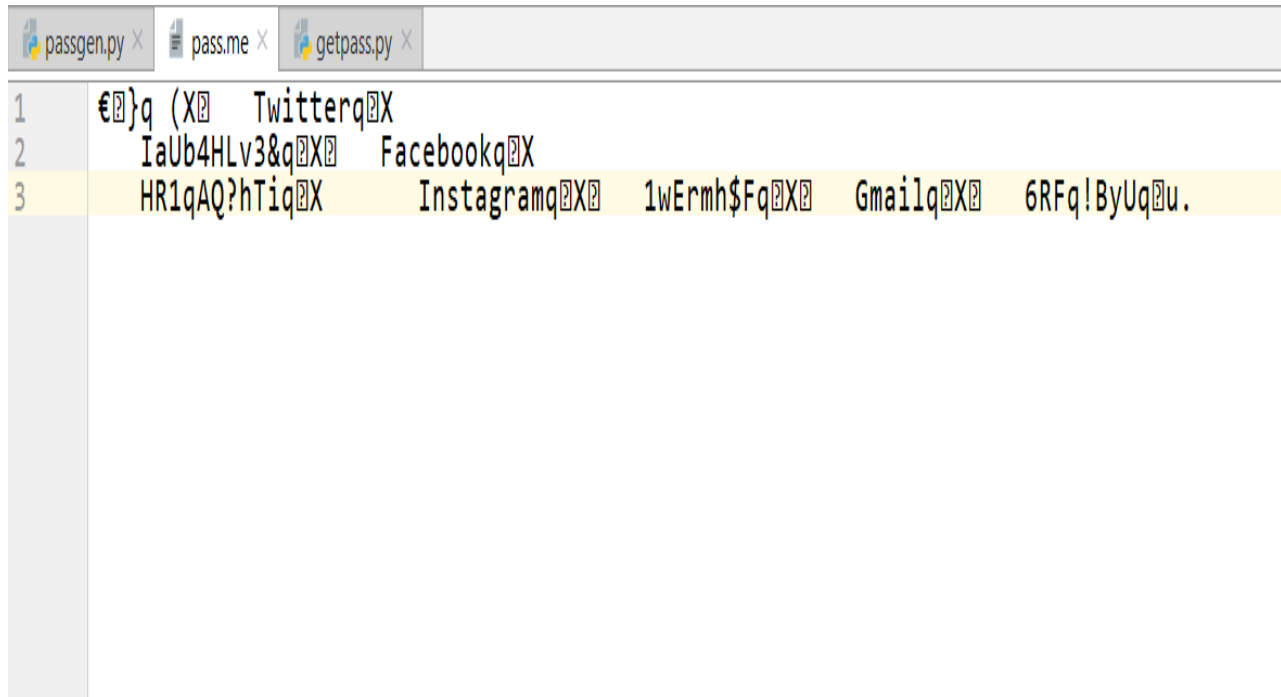
Fig 2: User demanding another password

Fig 3: Getting passwords of different accounts using master account

Fig 4: Master user providing wrong account information

Fig 5: File where the accounts and their respective passwords are stored