



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

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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

```
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

```
import getpass
import pickle

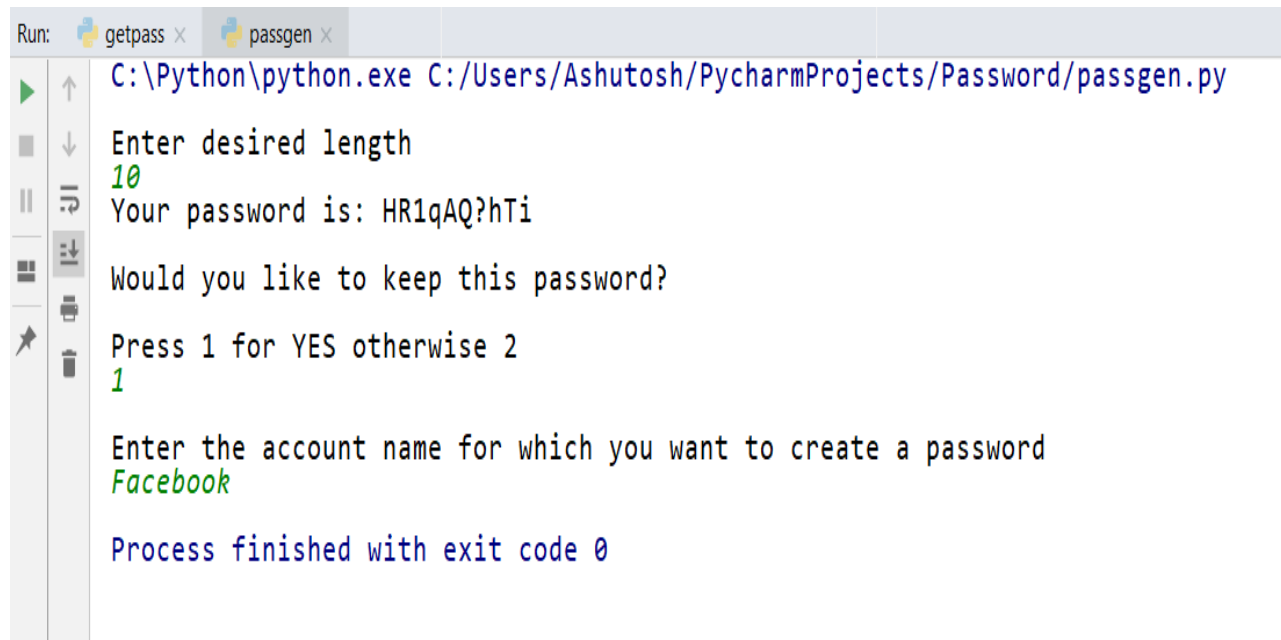
masterpass= input("Enter Your Master Password\n")

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)
```

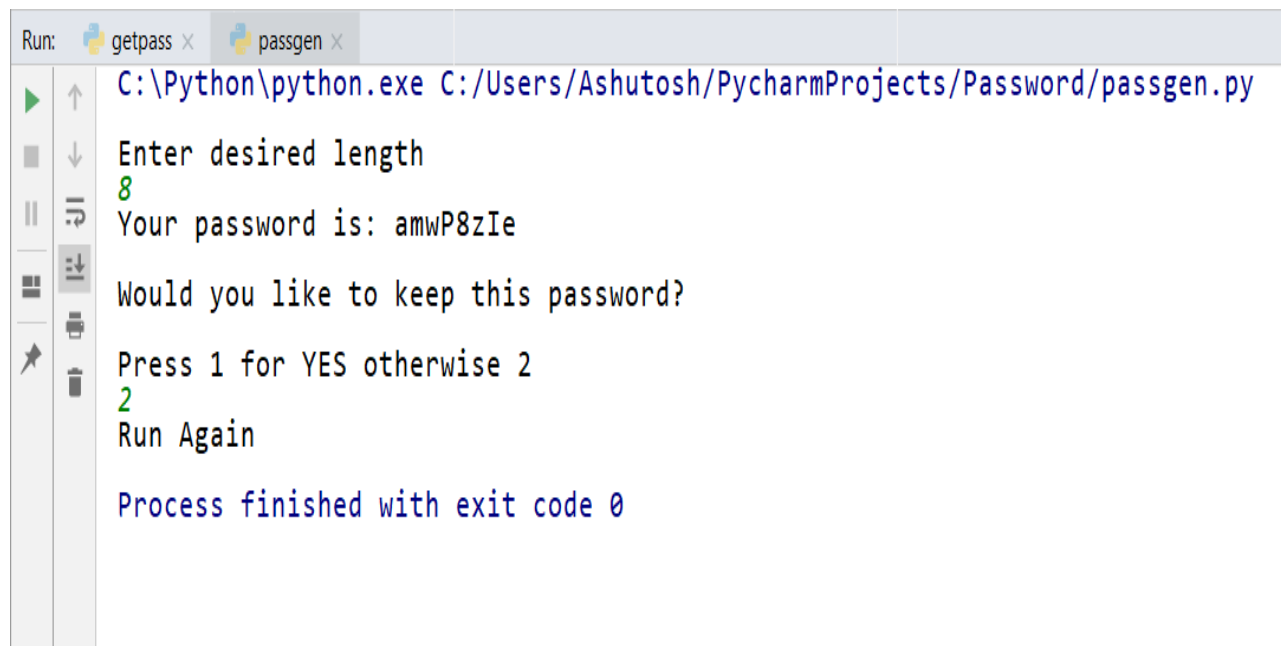
Snapshots



The screenshot shows the PyCharm Run console for a script named 'passgen.py'. The script prompts the user for a password length, generates a random password, and asks if the user wants to keep it. The user inputs '10' for length and '1' for YES. The generated password is 'HR1qAQ?hTi'. The process finishes with exit code 0.

```
Run: getpass x passgen x
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
```

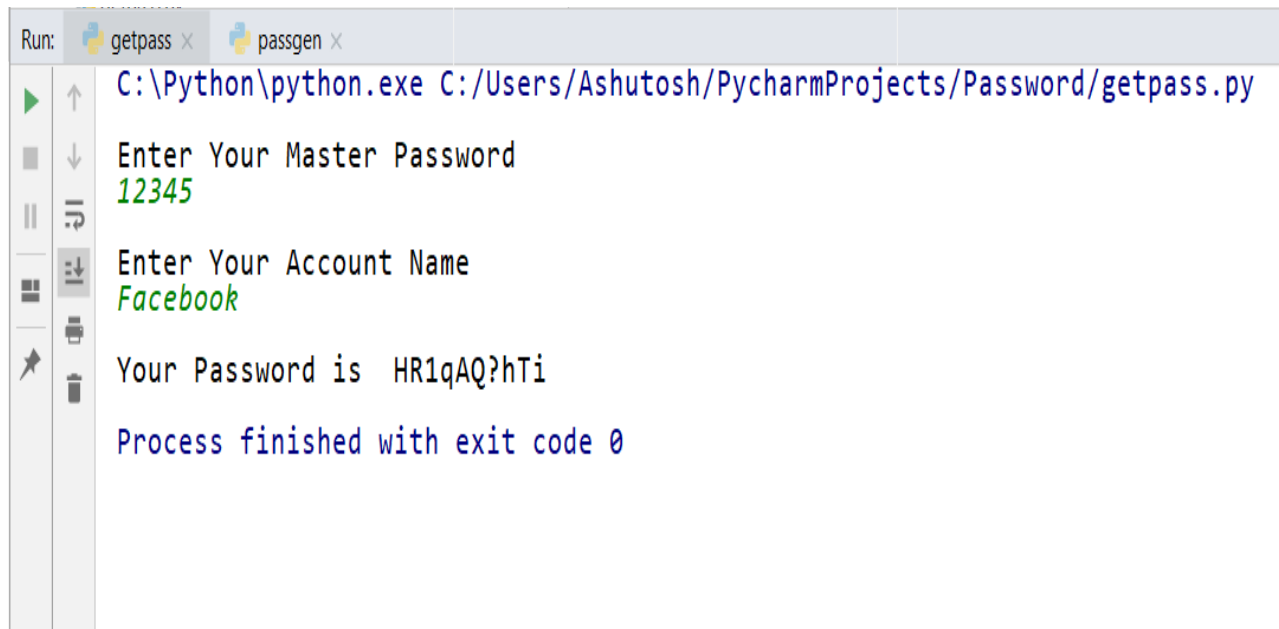
Fig 1: Random password generated



The screenshot shows the PyCharm Run console for the same 'passgen.py' script. The user inputs '8' for length and '2' for NO. The script prompts the user to 'Run Again'. The process finishes with exit code 0.

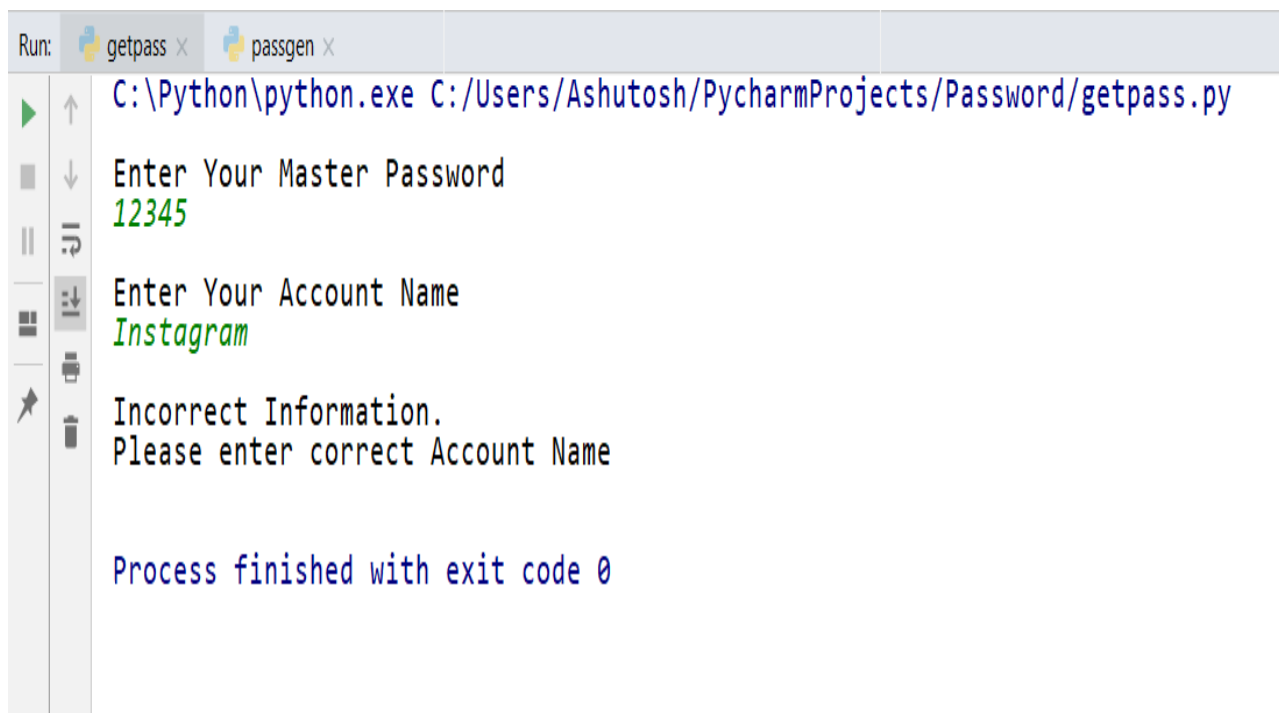
```
Run: getpass x passgen x
C:\Python\python.exe C:/Users/Ashutosh/PycharmProjects/Password/passgen.py
Enter desired length
8
Your password is: amwP8zIe
Would you like to keep this password?
Press 1 for YES otherwise 2
2
Run Again
Process finished with exit code 0
```

Fig 2: User demanding another password



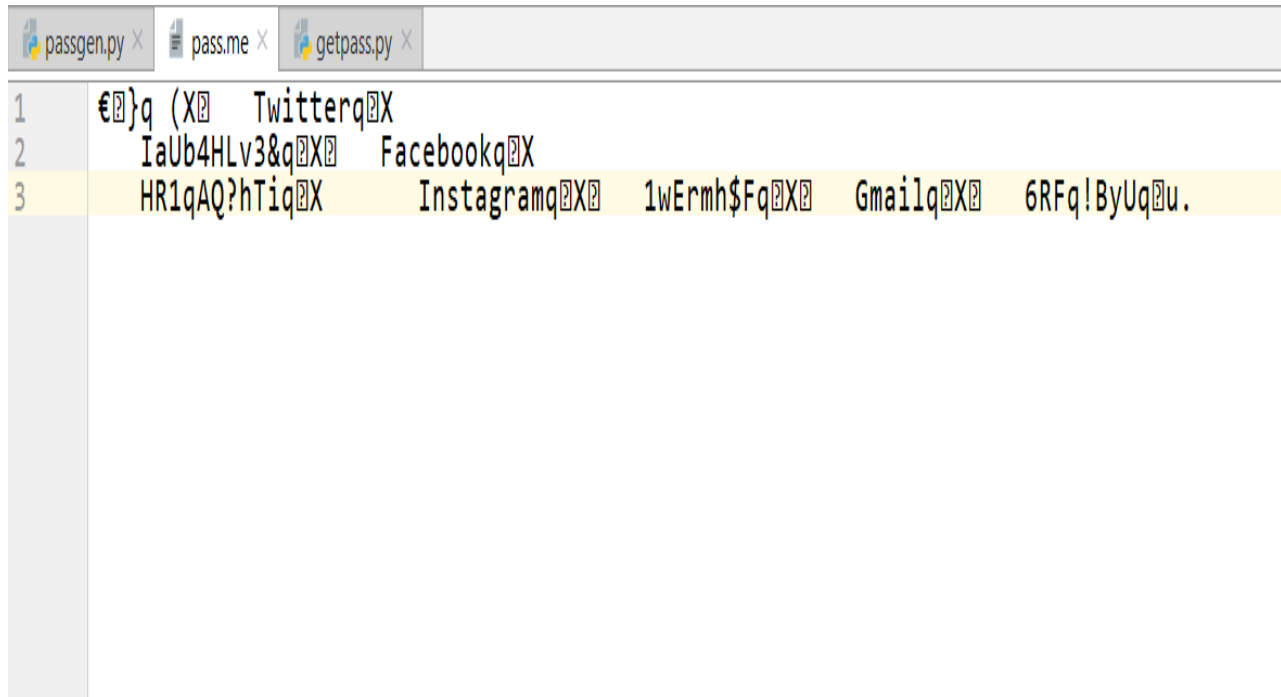
```
Run: getpass x passgen x
C:\Python\python.exe C:/Users/Ashutosh/PycharmProjects/Password/getpass.py
Enter Your Master Password
12345
Enter Your Account Name
Facebook
Your Password is HR1qAQ?hTi
Process finished with exit code 0
```

Fig 3: Getting passwords of different accounts using master account



```
Run: getpass x passgen x
C:\Python\python.exe C:/Users/Ashutosh/PycharmProjects/Password/getpass.py
Enter Your Master Password
12345
Enter Your Account Name
Instagram
Incorrect Information.
Please enter correct Account Name
Process finished with exit code 0
```

Fig 4: Master user providing wrong account information



```
passgen.py x pass.me x getpass.py x
1 €}q (X Twitter
2 IaUb4HLv3&q Facebook
3 HR1qAQ?hTi Instagram 1wErmh$Fq Gmail 6RFq!ByUq.
```

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