

PASSWORD AND USERNAME PICKER

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Problem Definition:

➤ A password picker is an application that allows you to create strong passwords by combining words, numbers, and special characters. A password picker will create a new password and show it to you every time you run your program which is the main logic behind creating a password picker with Python.

Module used:

➤ random module : random module helps to make random choices
string module : The string module help us to do useful things with strings, like splitting them apart or changing the way they appear

How it works:

Password picker is a Random Password generating program which generates a strong passwords by combining words,numbers,characters. The password picker program uses random choices from group of word, number,character,punctuation characters to assembles each password. When we run the program , it will create new password and show it on the screen. If you are not satisfied with the password,then you can ask it to keep creating new passwords until you find one you like.

■ How to code

- In order to access the Python library, we need to import the package in our Python script.

```
{import random  
import string}
```

- We will need list of words to create new passwords. In python ,we can keep a group of things together as a list. So in this project we will make two different list of words. First we will create the variable Names and nouns to store list of different words and separate each item with a comma.

```
Names = ['Arjav', 'Aditya', 'Akshat', 'Himanshu',  
          'Aaditya', 'Austin', 'Dhruv', 'Rudraksh',  
          'Harsh',  
          'Praneel', 'Jay' , 'Chirag', 'Krishna', 'Daksh']
```

```
Nouns = ['apple', 'dinosaur', 'ball', 'toaster',  
          'goat', 'dragon', 'hammer', 'cockroach', 'panda']
```



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- To create password, we will need to pick a random strings or words. we can do this using choice() function from random module. It will choose word randomly from string list and store that word in variable Names and Noun.

```
Names = random.choice(Names)  
noun = random.choice(nouns)
```

- Then we will use randrange() function from random module to select a random number from 0 to 999.

```
num = random.randrange(0,1000)
```

- We will use random.choice function to pick random punctuation character. This will make our password even harder to crack

```
special_char = random.choice(string.punctuation)
```

- Now, we will assemble all the different parts to create more secure and strong password.

```
password = Names+ Noun + str(num) + special_char
```

- You can also use a while loop to generate another password if the user demands a different password:





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```
import random
import string
print("Welcome to Password Picker")

Names = ['Arjav', 'Aditya', 'Akshat', 'Himanshu',
         'Aaditya', 'Austin', 'Dhruv', 'Rudraksh', 'Harsh',
         'Praneel', 'Jay', '', 'Chirag', 'Krishna', 'Daksh']

nouns = ['kj', 'sandipani', 'justice', 'Vidyavihar',
         'brewster', 'trinity', 'Money', 'somaiya', 'Jordan']

Names = random.choice(Names)
noun = random.choice(nouns)

number = random.randrange(0, 1000)
special_char = random.choice(string.punctuation)
password = Names + noun + str(number) + special_char
print("Your Username is : ", password)

while True:
    Names = random.choice(Names)
    noun = random.choice(nouns)
    number = random.randrange(0, 1000)
    special_char = random.choice(string.punctuation)

    password = Names + noun + str(number) + special_char
    print("You Password is : ", password)

    response = input("Would you like another password? Type Y or N: ")
    if response == 'N':
        break
```



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OUTPUT

Welcome to Password Picker

Your Username is : Harshsomnia210\

You Password is : sJordan916\$

Would you like another password? Type Y or N: Y

You Password is : skj274;

Would you like another password? Type Y or N: Y

You Password is : sJordan573'

Would you like another password? Type Y or N: N

arjavpatni@Arjavs-Air PP Assignment %

```
Welcome to Password Picker
Your Username is : Harshsomnia210\
You Password is : sJordan916$
Would you like another password? Type Y or N: Y
You Password is : skj274;
Would you like another password? Type Y or N: Y
You Password is : sJordan573'
Would you like another password? Type Y or N: N
arjavpatni@Arjavs-Air PP Assignment %
```

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REFERENCES:

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thank
you