

Password generator

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## introduction

* It is python project which is used to generate randomize password. Most of us use weak and ineffective password which can be easily hacked. Having a weak password is not good for a system that demands high confidentiality and security of user credentials. It turns out that people find it difficult to make up a strong password that is strong enough to prevent unauthorized users from memorizing it.

# ALGORITHM

1. **START**
2. **Import string and random module**
3. **Set limit on maximum length**
4. **Now create a list for uppercase, lowercase, digits and special symbol**
5. **Now concatenate the above list**

**COMBINED\_LIST = DIGITS + UPCASE\_CHARACTERS + LOCASE\_CHARACTERS + SYMBOLS**

1. **Randomly select at least one character from each list**
2. **Combine the character randomly selected above**
3. **At this stage we have 4 character but we want 12**

**temp\_pass = rand\_digit + rand\_upper + rand\_lower + rand\_symbol**

1. **Now we are sure that we have one character from each one of the list, now we fill the rest**
2. **Convert the temporary password into array and shuffle to prevent it from having a consistent pattern**
3. **Transverse the temporary password Array and append the chars to form password**
4. **STOP**

# PYTHON STATEMENT

# 1] Digits =0, 1, 2, 3, etc

Lo case= a,b,c,d,etc

Up case = A,B,C,D,etc

MAX\_LEN = 12

The above statement are assigned statement. Assigned statement are those statement in which value a variable is already assigned.

2] For loop such as

for x in range(MAX\_LEN - 4):

for x in temp\_pass\_list:

For loop is conditional loop which is used to repeat a set of instruction until the condition is satisfied. The syntax for loop is:

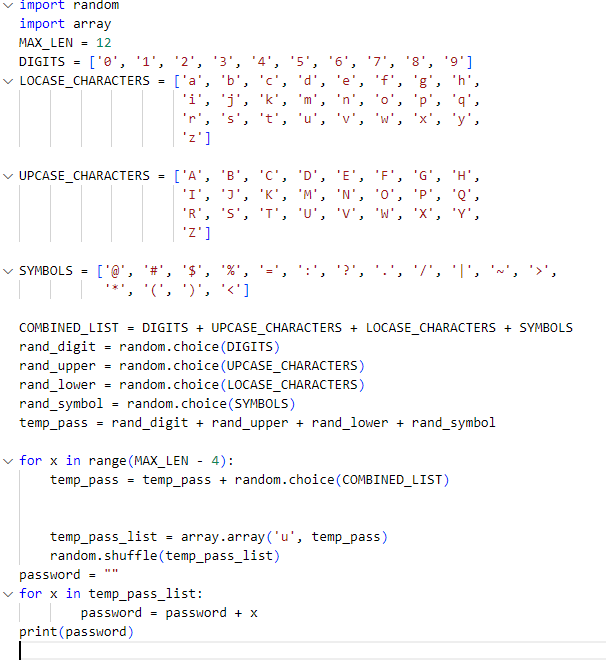
**for** value **in** **range**/sequence:

Statement 1, statement 2, statement n

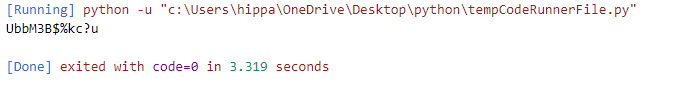
PYTHON LIBRARY

1. print: it is used display the output
2. Array Modules: defines an object type that can compactly represent an array of some basic values as characters, integers, floating-point numbers
3. Random Modules: To create a random string

4. Import: Import keyword **to make code in one module available in another**.



Output



# CONCLUSION

With passwords forming the primary line of defense between personal, sensitive data and cybercriminals, they remain steadfast in the fight against fraud. The future of password security should involve widespread adoption of longer passwords and diversification of passwords used across accounts.

This project will help us to find stronger and diversified password. Password generated by this project will be strong enough to prevent unauthorized users from memorizing it.