

REPUBLIC OF TURKEY GEBZE TECHNICAL UNIVERSITY FACULTY OF ENGINEERING

CE302 ADVANCED PROGRAMMING TECHNIQUES FOR ENGINEERS ASSIGNMENT#1

Student's Details

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PROBLEM:

Dear "CE302 Advanced Programming Techniques for Engineers" Class' Students

You are supposed to write a Python Code to generate a random password creator.

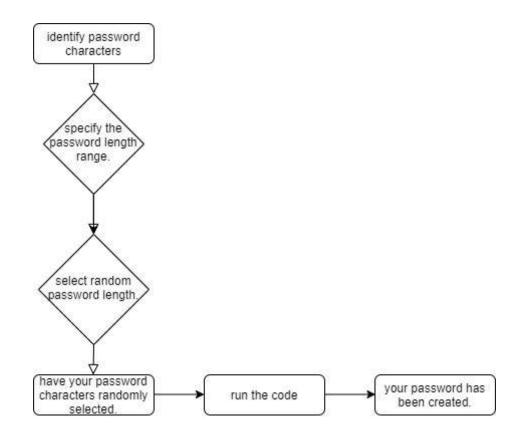
This code will perform and check the details below:

- 1. Your password length will be between 6-15 unit 1.1. There will be numbers (0,1,2, ...,8,9), letters(a, b, c, d,, w, x, y, z) and special characters (@, -, *, +, -, /)
- 2. Your code will check
 - o How many characters do you have?
 - o Is it sensitive for small-big letters? (iy is expected to be sensitive)
 - o Does your code has letters, numbers, and special characters simultaneously? (it is expected to contain all)
 - o Does your code consist of sequencing numbers and letters?
- 3. You'll write for code taking these instructions into account then your code will generate a password.

Please get any kind of collaboration together.

Good luck.

FLOWCHART:



EXECUTIVE SUMMARY:

In short, the creation of this code is as follows, I used the functions "random" and "string" in python for the password creation program. first, I defined the characters of the password to be created. later, I created a list for the desired password length from us. with the" random " command, I encoded the password length to form between 6 and 15 characters. I created a random password from the characters I defined using the" for " loop. when you run the code, it will generate a password and tell you how many characters your password has. because I use a loop, you will encounter a different sequence of passwords each time you run it.

CODE PART:

In [1]:

```
import random
import string
'''
used python embedded functions to create this password creation program.
string.the ascii_letters command prints letters in the alphabet (uppercase and lowercase).
'''
letters = string.ascii_letters
print(f" letters is ' {letters}'.")
numbers='0123456789'
punctuation ="@-*+-/"
```

letters is 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ'.

In [2]:

password length is 14. B9zdAgILeG73aS