W7D3 - ESERCIZIO

Traccia:

Scrivi una funzione generatrice di password.

La funzione deve generare una stringa alfanumerica di 8 caratteri qualora l'utente voglia una password semplice, o di 20 caratteri ascii qualora desideri una password più complicata.

```
W7D1 filepy.py > ♥ main
    import string
    import random
    tabnine: test | explain | document | ask
    def genera password(complexity):
       This function generates a random password based on the complexity level chosen by the user.
        :param complexity: The complexity level of the password. Can be either "simple" or "complex".
        :type complexity: str
        :return: The generated password.
        # Setting password length to 8 if its simple or to 20 if its complex
        lenght = 8 if complexity == "simple" else 20
        # Characters permitted based on complexity level
       characters = string.ascii letters + string.digits
       if complexity == "complex":
            characters += string.punctuation
        # Generate the password selecting casually the possible strings
        password = ''.join(random.choice(characters) for complexity in range(lenght))
        return password
```

• Iniziamo con la scrittura del codice spiegando anche cosa fa ogni linea del codice e cercando di spiegare ogni parametro

```
This function prompts the user for the complexity level and calls the generate password function to generate the password.

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This function prompts the user for the complexity level and calls the generate password function to generate the password.

This function prompts the user for the complexity level of password that you need.").lower()

This function prompts the user for the complex based on the type of password that you need.").lower()

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This function prompts the password is "complex";

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This function password function to general password that you need.").lower()
```

• Una volta finito di scrivere il code, procediamo con la funzione di Run e Debug del code e otteniamo il seguente risultato:

```
PS C:\Users\anton\OneDrive\Desktop\Working Programs\W7D1> & 'python' 'c:\Users' -' 'C:\Users\anton\OneDrive\Desktop\Working Programs\W7D1\W7D1 filepy.py'

Type simple or complex based on the type of password that you need.

Please answer with simple or complex!

Type simple or complex based on the type of password that you need.simple

Your password is: 617Ns8nT

PS C:\Users\anton\OneDrive\Desktop\Working Programs\W7D1> complex
```

• Notiamo che avendo dato una risposta diversa da complex o simple il code ci chiede di nuovo di scrivere simple o complex dal momento che la risposta era invalida.