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In [12]: pip install forex-python
         Defaulting to user installation because normal site-packages is not writeable
         Requirement already satisfied: forex-python in c:\users\nishi\appdata\roaming\python\python310\site-packages (1.8)
         Requirement already satisfied: requests in c:\users\nishi\appdata\roaming\python\python310\site-packages (from forex-python) (2.31.0)
         Requirement already satisfied: simplejson in c:\users\nishi\appdata\roaming\python\python310\site-packages (from forex-python) (3.19.2)
         Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests->forex-python) (3.4)
         Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests->forex-python) (2022.12.7)
         Requirement already satisfied: charset-normalizer<4,>=2 in c:\programdata\anaconda3\lib\site-packages (from requests->forex-python) (2.0.4)
         Requirement already satisfied: urllib3<3,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests->forex-python) (1.26.14)
         Note: you may need to restart the kernel to use updated packages.
 In [5]: from forex_python.converter import CurrencyRates
         def currency_converter(amount, from_currency, to_currency):
             c = CurrencyRates()
             try:
                 # Convert the amount from the source currency to the target currency
                 converted_amount = c.convert(from_currency, to_currency, amount)
                 # Display the result
                 print(f"{amount} {from_currency} is equal to {converted_amount:.2f} {to_currency}")
             except:
                 print("Error: Invalid currency code or conversion not supported.")
         if __name__ == "__main__":
             # Get user input
             amount = float(input("Enter the amount to convert: "))
             from_currency = input("Enter the source currency code (e.g., USD): ").upper()
             to_currency = input("Enter the target currency code (e.g., EUR): ").upper()
             # Perform the conversion
             currency_converter(amount, from_currency, to_currency)
         Enter the amount to convert: 100
         Enter the source currency code (e.g., USD): USD
         Enter the target currency code (e.g., EUR): EUR
         100.0 USD is equal to 93.72 EUR
         How does the program handle user input errors and what security measures could be incorporated to enhance password security in the random password generator project?
        pip install requests
 In [6]:
         Defaulting to user installation because normal site-packages is not writeable
         Requirement already satisfied: requests in c:\users\nishi\appdata\roaming\python\python310\site-packages (2.31.0)
         Requirement already satisfied: urllib3<3,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests) (1.26.14)
         Requirement already satisfied: charset-normalizer<4,>=2 in c:\programdata\anaconda3\lib\site-packages (from requests) (2.0.4)
         Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests) (3.4)
         Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests) (2022.12.7)
         Note: you may need to restart the kernel to use updated packages.
In [11]: import random
         import string
         def generate_password(length, include_numbers=False, include_special_chars=False):
             characters = string.ascii_letters
             if include_numbers:
                 characters += string.digits
             if include_special_chars:
                 characters += string.punctuation
             if length < 1:</pre>
                 print("Password length should be at least 1.")
             password = ''.join(random.choice(characters) for _ in range(length))
             return password
         def main():
             print("Random Password Generator")
             length = int(input("Enter the length of the password: "))
             include_numbers = input("Include numbers? (y/n): ").lower() == 'y'
             include_special_chars = input("Include special characters? (y/n): ").lower() == 'y'
             password = generate_password(length, include_numbers, include_special_chars)
             if password:
                 print("Generated Password:", password)
         if __name__ == "__main__":
             main()
         Random Password Generator
         Enter the length of the password: 89
         Include numbers? (y/n): n
         Include special characters? (y/n): n
         Generated Password: EwPArComczKqAHaqkztqfFwVrciiiwPkaDYlZYFpQvSfKpwDDlkdwoUvDPFxiWXZFjmPFCyLTMLnsGSbNOWDonHlC
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