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#-----Step To Create Email OTP verification Code Using Python-----
#1--- First we will create a 6 digit random number---
#2---Then we will store this number in to a Variable---
#3---Then we need a program to send the email---
#4---When sending email we need to use OTP as message---
#5---Finally we request two user input, First for the users email and then for the OTP that users received---
#Here we use only Random library for create a random otp---
#---Allowing the user to retry OTP entry in case of incorrect input.----

import random

def generate_otp():
    """Generate a 6-digit OTP."""
    return ''.join(random.choices('0123456789', k=6))

#In the above function generate_otp(), k is a parameter representing the number of elements to choose from the given sequence. In this ca

def send_otp(email, otp):
    """Simulate sending OTP to the user's email address."""
    print(f"Sending OTP: {otp} to {email}")

def prompt_user_for_otp():
    """Prompt the user to enter the OTP received."""
    return input("Enter the OTP you received: ")

def verify_otp(otp, entered_otp):
    """Verify if the entered OTP matches the generated OTP."""
    return otp == entered_otp


def main():
    email = input("Enter your email address: ")
    otp = generate_otp()
    send_otp(email, otp)

    max_attempts = 3
    attempts = 0

    while attempts < max_attempts:
        entered_otp = prompt_user_for_otp()
        if verify_otp(otp, entered_otp):
            print("OTP verified. Access granted!")
            break
        else:
            attempts += 1
            print("Incorrect OTP. Please try again.")

    if attempts == max_attempts:
        print("Maximum attempts reached. Access denied.")
#---In the above code we create a range of 3 max attempt---
if __name__ == "__main__":
    main()

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 Enter your email address: biswajitgiri80446@gmail.com
 Sending OTP: 259055 to biswajitgiri80446@gmail.com
 Enter the OTP you received: 259055
 OTP verified. Access granted!