def fibonacci\_non\_recursive(N):

num1, num2 = 0, 1

for \_ in range(N):

print(num1, end=" ")

num3 = num1 + num2

num1 = num2

num2 = num3

print()

def fibonacci\_recursive(n):

if n <= 1:

return n

return fibonacci\_recursive(n - 1) + fibonacci\_recursive(n - 2)

if \_\_name\_\_ == "\_\_main\_\_":

n = int(input("Enter the value of n: "))

while True:

choice = int(input("Enter choice for Fibonacci series: 1 for Recursive, 2 for Non-Recursive, 3 to Exit: "))

if choice == 1:

for i in range(n):

print(fibonacci\_recursive(i), end=" ")

print()

elif choice == 2:

fibonacci\_non\_recursive(n)

elif choice == 3:

print("Exiting program.")

break

else:

print("Invalid choice! Please choose 1 (Recursive), 2 (Non-Recursive), or 3 (Exit).")