import random import time

total\_frames = int(input("Enter the total number of frames: ")) window\_size = int(input("Enter the Window Size: ")) total\_transmissions = 0

random.seed(time.time())

current\_frame = 1

while current\_frame <= total\_frames: transmitted\_frames = 0

for frame in range(current\_frame, min(current\_frame + window\_size, total\_frames + 1)):

print("Frames sent", frame) total\_transmissions += 1

for frame in range(current\_frame, min(current\_frame + window\_size, total\_frames + 1)):

flag = random.randint(0, 1) if not flag:

print("Acknowledgment for Frame", frame) transmitted\_frames += 1

else:

print("Frame", frame, "Not Received") print("Retransmitting Window")

break

print()

current\_frame += transmitted\_frames

print("Total number of transmissions:", total\_transmissions) '''

python -u "C:/Users/Rishab/OneDrive/Desktop/CN Experiments/import random.py"

Enter the total number of frames: 4

Enter the Window Size: 3

Frames sent 1

Frames sent 2

Frames sent 3

Acknowledgment for Frame 1

Frame 2 Not Received

Retransmitting Window

Frames sent 2

Frames sent 3

Frames sent 4

Frame 2 Not Received

Retransmitting Window

Frames sent 2

Frames sent 3

Frames sent 4

Acknowledgment for Frame 2

Frame 3 Not Received

Retransmitting Window

Frames sent 3

Frames sent 4

Frame 3 Not Received

Retransmitting Window

Frames sent 3

Frames sent 4

Frame 3 Not Received

Retransmitting Window

Frames sent 3

Frames sent 4

Acknowledgment for Frame 3

Acknowledgment for Frame 4

Total number of transmissions: 15

'''