Over-view of the program

```
📴 F:\2) Second Year 2020-2021\WinterSemester-2021\CSI2007 Data Communication and Network\Lab Assignment\Assignment-3\m_selective_repeat.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
                         *REPL* [python] × *REPL* [python] ×

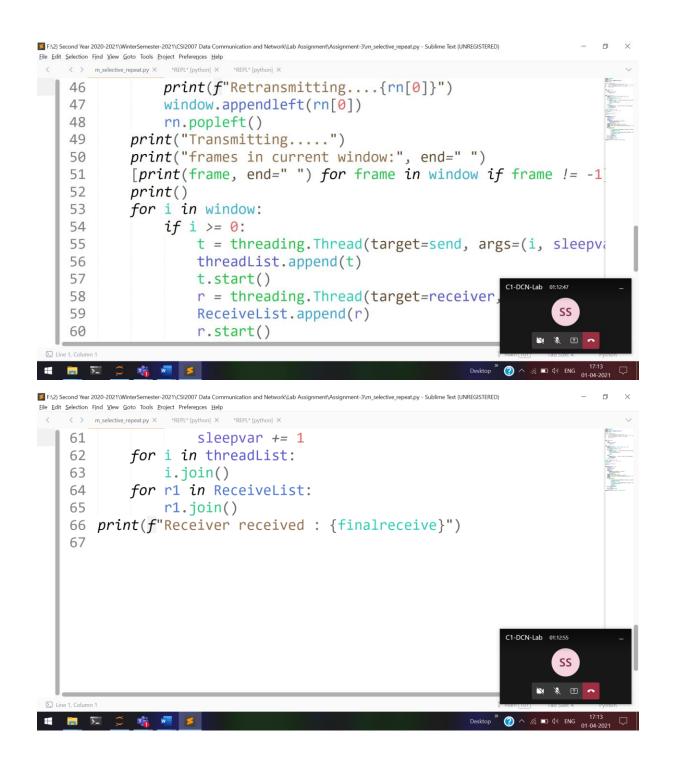
    m_selective_repeat.py ×

13 def send(y, sv): --
      18
      19 def receiver(z, sv): --
      33
      34 window = que([0, 1, 2, 3])
      35 frames = [4, 5, 6, -1, -1, -1, -1]
      36 \text{ rn} = que([])
      37 s = 0
      38 finalreceive = [0] * 7
      39 frn = 0
      40
      41 while(sum(window) > -4): --
                                                                                             C1-DCN-Lab 01:13:13
      66 print(f"Receiver received : {finalreceive}")
      67
                                                                                     Desktop <sup>≫</sup> ② ∧ //<sub>6</sub> ■ Φ) ENG 17:13 □ □ 01-04-2021 □
```

Actual Code

```
🌠 F-\2) Second Year 2020-2021\WinterSemester-2021\CSI2007 Data Communication and Network\Lab Assignment\Assignment\Assignment-3\m_selective_repeat.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
    \langle \ \rangle m_selective_repeat.py \times *REPL* [python] \times *REPL* [python] \times
1 import threading
       2 import time
       3 from collections import deque as que
       4 import random
       5
       6 # #def framing(list1):
                     m = Len(bin(max(List1)).replace("0b", ""))
       7 #
                     list1 = map(lambda x: format(x, '0' + str(m) + 'b'), li
                     list1 = [list(map(int, i)) for i in list1]
       9 #
      10 #
                     return list1
      11
      12
                                                                                            C1-DCN-Lab 01:11:44
      13 def send(y, sv):
      14
                  x = 0
                  while(x < (sv + 4)):
      15
                                                                                     Desktop <sup>2</sup> (2) ∧ //<sub>6</sub> ■ (4) ENG 17:12 □ 01-04-2021 □
     - 5<u>-</u>
```

```
🌉 F:\2) Second Year 2020-2021\WinterSemester-2021\CSI2007 Data Communication and Network\Lab Assignment\Assignment-3\m_selective_repeat.py - Sublime Text (UNREGISTERED)
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 \langle \langle \rangle m_selective_repeat.py \times *REPL*[python] \times *REPL*[python] \times
     16
                        time.sleep(1)
      17
                        x += 1
      18
      19
           def receiver(z, sv):
      20
                  global finalreceive, window, frames, rn, s, frn
      21
                  time.sleep(sv + 2)
      22
                  y = random.randrange(0, 14) % 3
      23
                  if (y != 0):
      24
                        print(f^{\prime\prime}Ack \{z+1\} -->confirms the frame-\{z\} has received.
      25
                        finalreceive[z] = z
      26
                        window.append(frames[s])
      27
                        s += 1
                                                                                           C1-DCN-Lab 01:12:12
      28
                        frn += 1
      29
                  else:
      30
                        print(f"NAK \{z\} --> frame- \{z\} has to be
                                                                                                 🖎 💃 🗈 🕋
                                                                                    Desktop <sup>®</sup> (?) ∧ (€, □ □ □) ENG 01-04
🌉 F:\2) Second Year 2020-2021\WinterSemester-2021\CSI2007 Data Communication and Network\Lab Assignment\Assignment-3\m_selective_repeat.py - Sublime Text (UNREGISTERED)
File Edit Selection Find Yiew Goto Tools Project Preferences Help
      31
                        rn.appendleft(z)
      32
                 window.popleft()
      33
      34 window = que([0, 1, 2, 3])
      35 frames = [4, 5, 6, -1, -1, -1, -1]
      36 \text{ rn} = que([])
      37 s = 0
      38 finalreceive = [0] * 7
      39 frn = 0
      40
      41 while(sum(window) > -4):
      42
                  threadList = []
                                                                                           C1-DCN-Lab 01:12:38
      43
                  ReceiveList = []
      44
                  sleepvar = 0
      45
                  while(rn):
                                                                                   Desktop <sup>®</sup> ② ∧ ⋒ ■ 如 ENG 17:13
```



Test-case



