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ДИСЦИПЛИНА: «Распределенные системы»

Отчет по практической работе №1 Тема:

«Протокол HTTP/HTTPS»

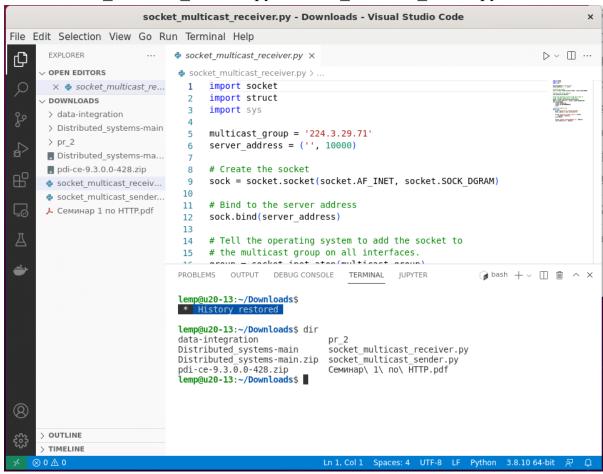
Преподаватель: Босенко Т.М.

Выполнила: Савина Е С.

группа: ТП-191

Ход работы:

1. Проверка каталога и наличия в нем файлов socket multicast reciever.py и socket multicast sender.py:



2. Запуск получения и отправки сообщения, вывод результатов:

```
socket_multicast_sender.py - Downloads - Visual Studio Code
File Edit Selection View Go Run Terminal Help
          socket_multicast_sender.py × socket_multicast_receiver.py
                                                                                                                                                                                                              ▷ ~ □ ··
           socket_multicast_sender.py > ...
6 multicast_group = ('224.3.29.71', 10000)
                   # Create the datagram socket
                   sock = socket.socket(socket.AF INET. socket.SOCK DGRAM)
            10
                  # Set a timeout so the socket does not block
                   # indefinitely when trying to receive data.
            12
                   sock.settimeout(0.2)
            15
                   # Set the time-to-live for messages to 1 so they do not
                   # go past the local network segment.
ttl = struct.pack('b', 1)
            16
 sock.setsockopt(socket.IPPROTO_IP, socket.IP_MULTICAST_TTL, ttl)
            19
            21
                         # Send data to the multicast group
            22
            23
                         print('sending {!r}'.format(message))
                         sent = sock.sendto(message, multicast_group)
           PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
                                                                                                                                                                                                                + - ^ ×
                                                                                                                                                                                                        _ r python3
                                                                                                         • lemp@u20-13:-/Downloads$ python3 socket_multicast_sender.py sending b'very important data' waiting to receive received b'ack' from ('172.26.35.133', 10000)
           lemp@u20-13:~/Downloads$ python3 socket_multicast_receiver.py
           waiting to receive message
received 19 bytes from ('172.26.35.133', 43111)
b'very important data'
                                                                                                            waiting to receive received b'ack' from ('172.26.35.132', 10000)
           sending acknowledgement to ('172.26.35.133', 43111)
                                                                                                            received b'ack' from ('172.26.35.132', 10000) waiting to receive received b'ack' from ('172.26.35.29', 10000) waiting to receive received b'ack' from ('172.26.35.139', 10000) waiting to receive received b'ack' from ('172.26.35.127', 10000)
           waiting to receive message
received 19 bytes from ('172.26.35.128', 40081)
b'very important data'
sending acknowledgement to ('172.26.35.128', 40081)
           waiting to receive message
received 19 bytes from ('172.26.35.29', 58567)
b'very important data'
sending acknowledgement to ('172.26.35.29', 58567)
                                                                                                            received b'ack' from ('172.26.35.12', 10000)
                                                                                                            waiting to receive received b'ack' from ('172.26.35.121', 10000)
```

3. Изменение отправляемого сообщения и повторение операции:

