## **Dhruv Choudhary RollNo.09**

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  server.py X  client.py
   C: > Users > admin > Desktop > experiment3 > ♥ server.py > ❤ start
         1 import socket, threading
                  PORT = 5050
                 SERVER = socket.gethostbyname (socket.gethostname ())
                 ADDR = (SERVER, PORT)
FORMAT = 'utf-8'
                  HEADER = 64
         8 DISCONNECT_MESSAGE = '!DISCONNECT'
        10 server = socket.socket (socket.AF_INET, socket.SOCK_STREAM)
                   server.bind (ADDR)
                  def clientHandling (connection, address):
                            print (f'[NEW CONNECTION] {address} connected')
                               isConnected = True
                              while isConnected:
                                        messageLength = connection.recv (HEADER).decode (FORMAT)
                                         if messageLength:
                                               messageLength = int (messageLength)
                                                  message = connection.recv (messageLength).decode (FORMAT)
                                                 if message == DISCONNECT_MESSAGE:
                                                          isConnected = False
                                                  print (f'[{address}] {message}')
connection.send ('Message Recieved'.encode (FORMAT))
                              connection.close ()
                     def start ():
                           server.listen ()
                              print (f'[LISTENING] Server is listening on {SERVER}')
                              while True:
                                      connection, address = server.accept ()
                                         thread = threading.Thread (target=clientHandling, args=(connection, address))
                                         thread.start ()
                                         print (f'[ACTIVE CONNECTION] {threading.active_count () - 1}')
                   print ('[SERVER STARTING] server has been started')
                    start ()
      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
      [NEW CONNECTION] ('192.168.21.215', 65096) connected
      [ACTIVE CONNECTION] 1
     [('192.168.21.215', 65096)] Hello World
[('192.168.21.215', 65096)] !DISCONNECT
```

```
/iew Go Run Terminal Help
              client.py X
server.pv
C: > Users > admin > Desktop > experiment3 > ♦ client.py > ...
  1 import socket
      PORT = 5050
  4 SERVER = '192.168.21.215'
     ADDR = (SERVER, PORT)
FORMAT = 'utf-8'
     HEADER = 64
  8 DISCONNECT_MESSAGE = '!DISCONNECT'
     client = socket.socket (socket.AF_INET, socket.SOCK_STREAM)
      client.connect (ADDR)
      def send (messages):
         message = messages.encode (FORMAT)
          messageLength = len (message)
          sendLength = str (messageLength).encode (FORMAT)
          sendLength += b' ' * (HEADER - len (sendLength))
          client.send (sendLength)
          client.send (message)
          print (client.recv (2045).decode (FORMAT))
      if __name__ == '__main__':
    ### Pass the Hello World message as an input
          send ("Hello World")
          send (DISCONNECT_MESSAGE)
 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
 Message Recieved
 Message Recieved
PS C:\Users\admin>
```