# CSE3231: Computer Networks

## Assignment #3: Socket Programming

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The purpose of this assignment was to write a program that sends a UDP packet to a server and receives a reply. I wrote the program in Python, as that was the easiest to set up.

**Code:**

`main.py` :

```python
1   import socket
2   HOST = '34.74.19.25'
3   PORT = 30315
4   SERVER_ADDR = (HOST, PORT)
5   email = 'gbutler2020@my.fit.edu'
6
7
8   def main():
9       soc = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
10      soc.sendto(email.encode(), SERVER_ADDR)
11      print(f'sent:{email}')
12      data = soc.recvfrom(1024)
13      print(f'received:{data[0].decode()}')
14
15
16  main()
17
```

`terminal output` :

```
1   cse3231assignments/assignment_3-socket_programming/src on    trunk [!] via 🐍 v3.9.1
2   ❯ python main.py
3   sent: gbutler2020@my.fit.edu
4   received: Welcome, gbutler2020@my.fit.edu
```

`screenshot` :

```
fish /Users/gronk/Documents/Important/FIT/2_2022_Spring/CSE3231/cse3231assignments/assignment_3-socket_programming/src
```

```
❯ c main.py
0001: import socket
0002: HOST = '34.74.19.25'
0003: PORT = 30315
0004: SERVER_ADDR = (HOST, PORT)
0005: email = 'gbutler2020@my.fit.edu'
0006:
0007:
0008: def main():
0009:     soc = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
0010:     soc.sendto(email.encode(), SERVER_ADDR)
0011:     print(f'sent: {email}')
0012:     data = soc.recvfrom(1024)
0013:     print(f'received: {data[0].decode()}')
0014:
0015:
0016: main()
0017:
```

```
❯ python main.py
sent: gbutler2020@my.fit.edu
received: Welcome, gbutler2020@my.fit.edu
```

It would seem that it worked!