

EXPERIMENT N0-8

WRITE A PYTHON PROGRAM TO CREATE SOCKETS FOR INFORMATION EXCHANGE BETWEEN CLIENT AND SERVER

SOURCE CODE:-

SERVER :

```
import socket

s=socket.socket()

host = 'localhost'

port = 12345

s.bind((host,port))

s.listen(5)

c, addr = s.accept()

print('Got connection from',addr)

c.send(b'Hello, How are you? \nsuccessfully received')

msg='Bye!'

c.send(msg.encode())

c.close()
```

CLIENT:

```
import socket

s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)

host="localhost"

port=12345

s.connect((host,port))

msg=s.recv(1024)
```

while msg:

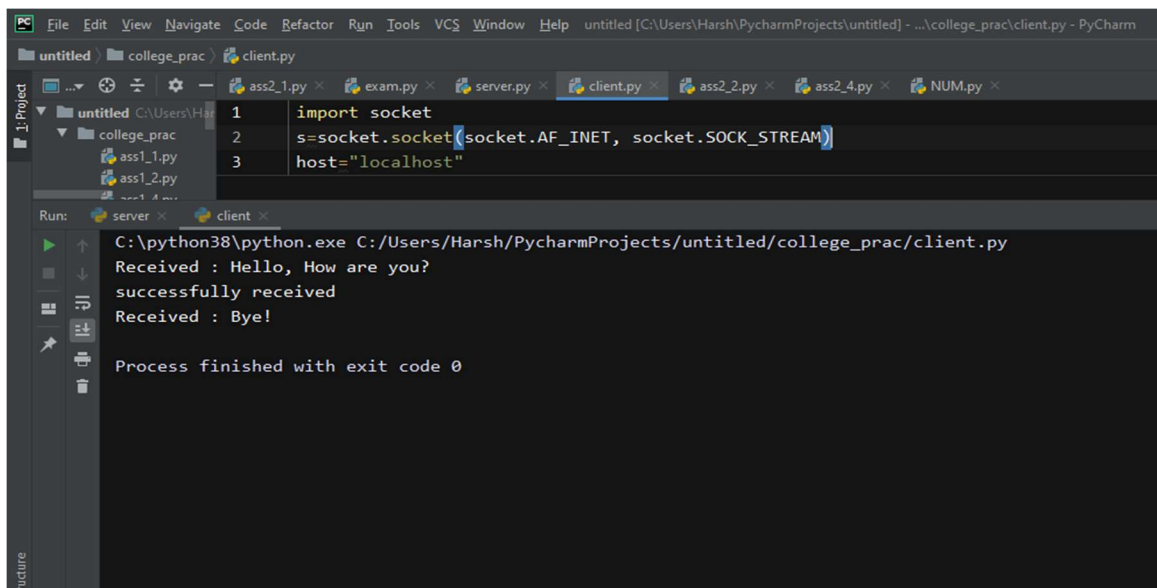
```
print("Received : " + msg.decode())
```

```
msg=s.recv(1024)
```

```
s.close()
```

OUTPUT:

CLIENT:



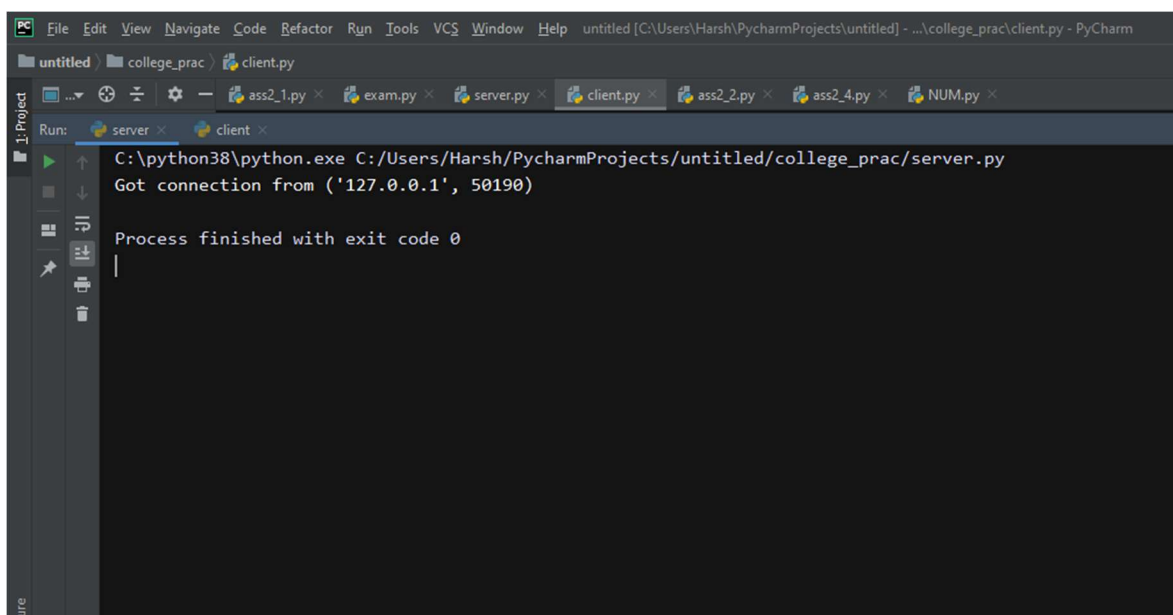
The screenshot shows the PyCharm IDE with the 'client.py' file open. The code in the editor is:

```
1 import socket
2 s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
3 host="localhost"
```

The 'Run' console at the bottom shows the execution of the client program:

```
C:\python38\python.exe C:/Users/Harsh/PycharmProjects/untitled/college_prac/client.py
Received : Hello, How are you?
successfully received
Received : Bye!
Process finished with exit code 0
```

SERVER:



The screenshot shows the PyCharm IDE with the 'server.py' file open. The code in the editor is:

```
1 import socket
2 s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
3 s.bind(('localhost', 50190))
4 s.listen(5)
5 while True:
6     conn, addr = s.accept()
7     print('Got connection from', addr)
8     # Handle the connection here
9     conn.close()
```

The 'Run' console at the bottom shows the execution of the server program:

```
C:\python38\python.exe C:/Users/Harsh/PycharmProjects/untitled/college_prac/server.py
Got connection from ('127.0.0.1', 50190)
Process finished with exit code 0
```