

#USERNAME AND PASSWORD AUTHENTICATION UDP CLIENT-SERVER PROGRAM

SERVER:

```
import socket
import numpy

UDP_IP='127.0.0.1'
UDP_PORT=5005

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

s.bind((UDP_IP,UDP_PORT))

#Available Datasets for Userid and Passwords:
a=[]
b=[]
a.append('admin')
b.append('admin')
a.append('user')
b.append('data')
a.append('tcp')
b.append('udp')

while True:
    username1,addr=s.recvfrom(1024)
    password1,addr=s.recvfrom(1024)

    username=username1.decode()
```

```
password=password1.decode()
k=0
for i in range (3):
    if(password==b[i] and username==a[i]):
        s.sendto('Access Granted'.encode(),addr)
        break;
    else:
        k=k+1;
if(k==3):
    s.sendto('Please Check your username and password'.encode(),addr)
```

CLIENT:

```
import socket

UDP_IP='127.0.0.1'
UDP_PORT=5005

s=socket.socket(socket.AF_INET,socket.SOCK_DGRAM)
s.connect((UDP_IP,UDP_PORT))

username=input('Enter username:')
password=input('Enter password:')

s.sendto(username.encode(),((UDP_IP,UDP_PORT)))
s.sendto(password.encode(),((UDP_IP,UDP_PORT)))
```

```
result,addr=s.recvfrom(1024)  
print(result.decode())
```