Mawlana Bhashani Science & Technology University

Lab Report No : 05
Course Code : ICT3208
Course Title : Computer Network Lab
Report Name : Day time Udp client server protocol

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Code :
Server side code :

```
import socket
from datetime import datetime
from datetime import date
server = socket.socket(socket.AF_INET,socket.SOCK_DGRAM)
host = 'localhost'
port =23453
server.bind((host,port))
now= datetime.now()
current_time=now.strftime("%H:%M:%S")
today = date.today()
date=today.strftime("%B %d,%Y")
print(date)
while True:
        print("Waiting for client")
        data ,address=server.recvfrom(1024)
        print(data)
        mess=current_time+" "+date
        server.sendto(mess.encode(),address)
```

Explanation : here we use socket package and date time for current date and time . And we use SOCK_DGRAM for udp protocol instead of SOCK_STREAM . In Udp we doesn't need to use the listen method since it is connection less protocol.

Client Side code:

```
import socket
client = socket.socket(socket.AF_INET,socket.SOCK_DGRAM)
host = 'localhost'
port = 23453
mess="This is udp client "
client.sendto(mess,(host,port))
messfromserver=client.recvfrom(1024)
print(messfromserver)
```

Output :

```
maskur@maskur-VirtualBox: ~/networklab_IT18021
File  Edit  View  Search  Terminal  Help
maskur@maskur-VirtualBox:~/networklab_IT18021$ python daytimeServerUdp.py
March 02,2021
Waiting for client
This is udp client
```

```
maskur@maskur-VirtualBox: ~/networklab_IT18021
File  Edit  View  Search  Terminal  Help
maskur@maskur-VirtualBox:~/networklab_IT18021$ python daytimeClientUdp.py
('10:08:52 March 02,2021', ('127.0.0.1', 23453))
maskur@maskur-VirtualBox:~/networklab_IT18021$
```