**PSG COLLEGE OF TECHNOLOGY**

**DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCES**

**COMPUTER NETWORKS LAB**

20XC46 COMPUTER NETWORKS LAB

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### 20XW46 COMPUTER NETWORKS AND TCP/IP LAB

### Problem Sheet-2

1. Develop a UDP-based client-server socket program for transferring a file.
2. Develop a simple banking application that allows the server to record deposits and withdrawals to an account specified by the client.

**Client**

import socket

c=socket.socket(socket.AF\_INET,socket.SOCK\_DGRAM)

serverAddr=('localhost',9999)

opt='y'

while opt=='y' or opt=='Y':

msg=input("Enter the message to be sent: ")

c.sendto(bytes(msg,"utf-8"),serverAddr)

Servermsg=c.recvfrom(1024)

print("Message from Server: ",Servermsg[0].decode())

op=input("Do you want to continue: ")

opt=op

**Server**

import socket

s=socket.socket(socket.AF\_INET,socket.SOCK\_DGRAM)

s.bind(('localhost',9999))

print("Server waiting")

while True:

cData=s.recvfrom(1024)

msg = cData[0]

cIp = cData[1]

print("Server is connected with : ",cIp)

print("Message from client: ",msg.decode())

s.sendto(msg,cData[1])

s.close()