```
Practical No: 0 (Basic of rpc)
Roll No : B -09
                       Date: 21/8/20
Program 1: Implement concept of RPC (Basic)
Client:
import socket
#client code
HOST = '127.0.0.10'
PORT = 65432
with socket.socket(socket.AF INET, socket.SOCK STREAM) as s:
      s.connect((HOST, PORT))
      print("CONNECTED")
      n=0
      while(n!=1):
             datai=str(input("**STOP=STOP** ENTER MESSAGE: "))
             if datai!="STOP":
                   s.sendall(b'HI')
                   data = s.recv(1024)
             if datai=="STOP":
print('Received', repr(data))
Server:
import socket
HOST = '127.0.0.10'
PORT = 65432
with socket.socket(socket.AF INET, socket.SOCK STREAM) as s:
  s.bind((HOST, PORT))
  s.listen()
  conn, addr = s.accept()
  with conn:
    print('Connected by', addr)
    while True:
      data = conn.recv(1024);print(data)
      if not data:
        break
      conn.sendall(data)
```

OUTPUT: C:\Windows\System32\cmd.exe - python nana.py C:\Windows\System32\cmd.exe - python DJ.py c) 2018 Microsoft Corporation. All rights reserved. icrosoft Windows [Version 10.0.17134.1006] c) 2018 Microsoft Corporation. All rights reserved. :\rohan\TELEGRAM\AlgoExpert\DS\Array>python DJ.py ONNECTED **STOP=STOP** ENTER MESSAGE: Hi **STOP=STOP** ENTER MESSAGE: U: 0.00 kB/s x^Q ^ / 10 ENG 07:26 PM 22:08-2020

```
Practical No: 1
Roll No : B -09
                         Date: 21/8/20
Program 1: Implement concept of RPC
Client:
import xmlrpc.client
 with xmlrpc.client.ServerProxy("http://localhost:8000/") as proxy:
   print("For 77 is %s" %str(proxy.countCoin(77)))
   print("For 20 is %s" %str(proxy.countCoin(20)))
Server:
from xmlrpc.server import SimpleXMLRPCServer
import math as m
 def sr(i):
   return 2**i
 def countCoin(n):
   for in range(1):
     p=0
     for i in range(0,n):
        #print(sr(i),i)
        if n \ge sr(i):
          p+=1
        else:
          break
   return(p)
server = SimpleXMLRPCServer(("localhost",8000))
print("server listening on 8000")
server.register function(countCoin,"countCoin")
server.serve_forever()
```

