4. Read data from senson and send it to a requesting client (cusing socket communication) -> Here, we are mainly sending data from Rospherory pi (senson) to client using socket get data. -> Here the client reads temperature/humplity senson data. Code Server side imposet socket import numpy as np import encodings 11 to encode data Host = socket , gethostname() PORT = 65432 det random-detac): senson = Adafait_DHT. DHT22 humidily, temperature = Adamit. DHT. rad retry (sensod, pin) if humidity is not None and temperature is not None: print ('Temp= 60: 0.17) Ethunidia = & 1: 0. If) 1. format (temporatore, donta = '8 3 18' format (temporatore) humidity Jetwin data

```
my-servoi():
with socket. Socket (socket. AF_INET, socket.
      SOCK_STRFAM) as s:
porint ("server started waiting for client to
    connect")
s. bind (CHOST, PORT))
 5.18ten (5)
 Conniador=s.accept()
 with conni
       print ("connected by", adder)
       while True;
       data=Gnn. recv (1024). decode (utf. of)
           if stor(data) == "Data";
                  print Cook sending detail)
                  my deta = vandom-data()
                  nencoded-data=my-data.
           11Ha timbella encode ('utif-8')
                  connisendall (de encoded date
            · elif stor(data) == "auit":
          print ('shutting")
             else:
  while 1
        my-server()
```

client side:import socket imposet thereading import time HOST = socket gethostname() PORT = 65432 det process-data-from-server (x): RI, y1 = x. split(",") reborn 21,41 det my_client(): floreading. Times (11, my-client). Start() with Socket . Socket (socket AF INET, sock-STREAM) as s: s. connect ((HOST, PORT)) my = input ("Enter command:1)) my-inp=my. encode. ('utf-8') s. sendall (my-inp) data = 5. vecv (1024). decode ('utf-8') re-temperatore, y-humidity = proces data_ from - server (data) print ("Temperatione & &" format point ("Humidily & &", format (yhumidity)) s.closec) time s eep (5)

if __name__ = "__main__". my-dient() Sorver side: Server streeted waiting for client to connect Connected by (192. 162.0.102', 50200) of sending deta Temp = 26.0° c Humidity = 28.0 %. client side :-Enter command: Data Temperatione 26.0 Humidily 28.0