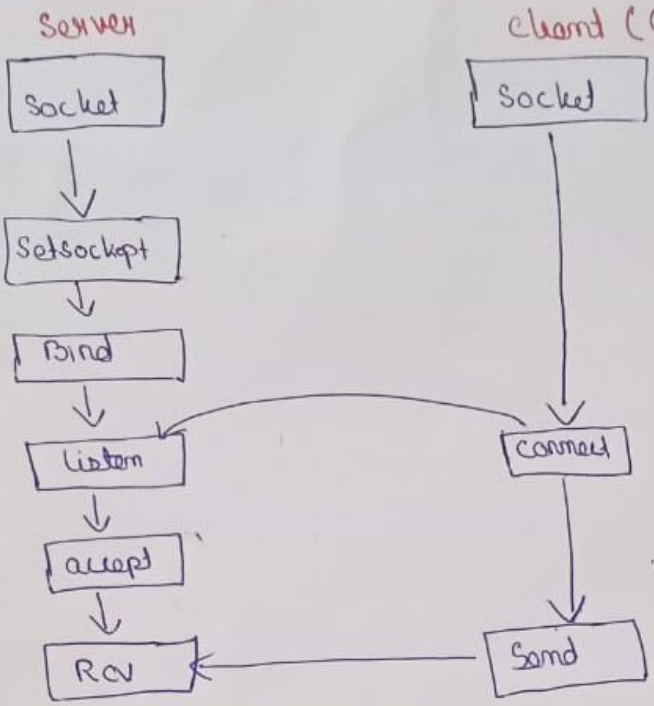
Process



Client

Program ① C_1

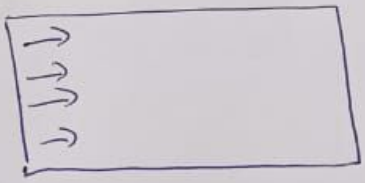
Program ② C_2

Program 3 C_3

Program 4 C_4

TCP/IP

Server (Ground station)



⇒ Storage data

Two Consumer Task

⇒ Temperature analysis

⇒ Rotation_Analysis

Create Two Task

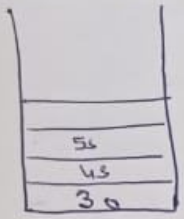
⇒ ID

⇒ Packet Number

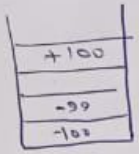
⇒ Data

⇒ Time stamp

Client 1
temp - Control system
(1) Data
Data stored in stack



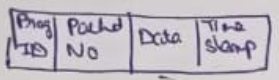
Client 2
Temp - Thruster

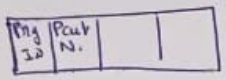


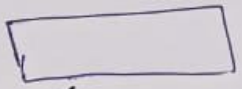
Client 3
Acceleration - Rocket

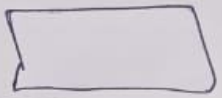
Client 4
Gyro Rocket

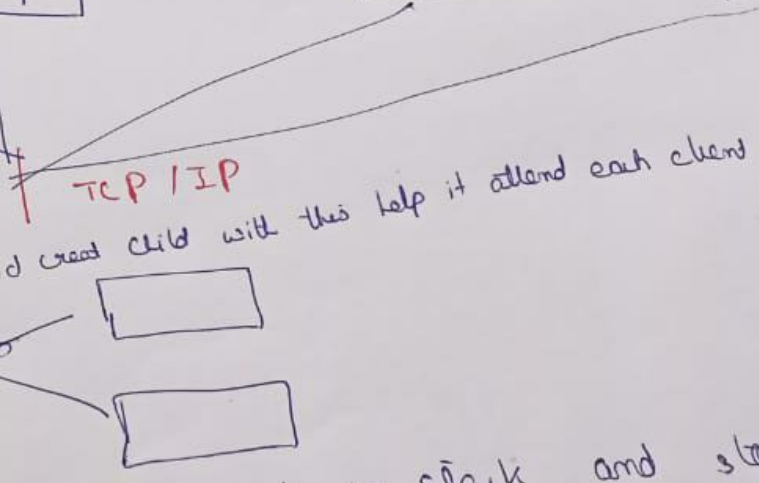
(2) => Data from each client come in Packet











=> ~~Stack~~ Data come in Last in First out ode in stack and stored

TCP client

1) Create TCP socket = cfd = socket (AFINET, SOCK_SREAM, 0);

⇒ IP address of server

2) Connect to server

make connection ( ) // called
read ( )
Printf (value Print

TCP Server

Create ( ) — TCP soket

struct sockat ;
sfd ;

bind ( ) - Socket server address

relation bwn socket and ~~API~~ Protocols, API

~~Listen~~ d

listent - wait for client to make connection

accept - connection establish

RCV