## Assignment-VI

Tetlet my 1 million to the teller for wired network for following. a. Say Hello to each other b- Pile Transfer. C. Calculator (mithmatic) de Calculator (Trigonometric). Requirements: pents:Pedora OS Blabit, Edipse

Theory 1-

a say Hello to Each other

1. Tep socket programming for wired.

The two key classes from java net package used in coneation of server & client programs are: Jesnes Socket & E Socket. A server progr--an creates a + specific etype of socket that is used to listen for client request (server socket), In couse of

connection request, the program creates a new socket through conich it will exchange data with the client using input & output streams. The socket abstraction is very similar to the the concept: developers have to open a socket, perform 1/0 & close it. A simple server program in Java The stops for creating a simple Server pregram are:

Dopen the server socket: Server societ server = hew server socket (PORT) 2) Wait for the client request Server client = server accepte); (3) Create I/o streams for communicative to the client Douba Input Stream 95= new Data Input stream (client get Inputstream) 4) pertorn communication with dient reciel from client (B) clase socket : client. close (). A simple chient program in Java client program are:

O create a socket object! Socket client = new socket (server, post-id) (2) Create 710 Streams for communicating with the servers, is- new Data Input--stream ( client, get Injourt stream). (3) Perstoom To /communication with server Reexeive data from the senier: String line = is readline(), send data do servero! Os contellytes ("Hello"); (4) close the socket when done dient-closery 2. Running Societ Programs Compile both senner & chient prag--rams & then deploy server program code on a machine. Which is going to act as a server & client program which is going to act as a client. IF required, both client & server programs can sup on the same machine to illustrate execution of server 4 dit client programs let us assumre that a machine called mundon o.cosé-unimelbedu au on which are want to sun a server program as indicated below. [raj@mundroo] java simplesener

The client program can run on any experience computer in the network (LAN or WAN or internet) as here is no finewall bet then that blocks communication.

Let us way we want to run our client.

[ raj@gnibus] java simple Client.

The client program is just establishing a connection with the server of then waits for a message

the communication with the server twhich is waiting for the connection TCP is connection mented full plant that UDP sockets do not need to be connected before being used.

