#### "शीलं परं भूषनाम्" | | | | | |

#### M. K. S. S. S. CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE.

STUDENT'S ROLL NO. :

3330



Assignment 6
Write a program using TCP socket for your chosen application (using java/C)
chosen application (using java/C)
1. What is the significance of socket? Explain different parameters to create socket.
différent parameters to create socket
The state of the s
Cincificance of 8-bot 1 and and other of
Significance of Socket - A socket is one endpoint of two way communication link between two
two way communication link between two
programs running on the retwork.
It establishes a way of inter process
communication. The socket provides bidirectional
FIFO Communication facility over the retwork
A socket connecting to the network is created
at each end of the communication. Each
socket has a specific address. This address is
composed of an IP address & a port number.
Sacketa and analysis in dient
Sochets are generally employed in client server applications. The server creates a
socket, attatches it to a network port address
Socket, attaches a war record of actions
I then waits for the Client to contact it.
The client creates a socket & then attempts
to connect to the server socket. When the
connection is established, transfer of data
takes place.
Socket socket = new Socket (1Paddress, port No);
Source - Into occion (Ilmonio / Para 100)
Eggl pagameter . IP address of carros (1970.0.)
First parameter -> 1P address of Server (127.0.0.1) is the IP address of local host)
w the praddless of wearness)

		rcf port (just a number representing which application is running on a server).  1- HTTP runs on port no-80  Port no. can be from 0 to 65535  (excluding reserved port nos)
2. S	escribe TCP nd explanation Server Side b	socket primitives with diagram of each primitive (Client &
Si	cket frimitive	es in TCP  Meaning
S	bocket	Create a new communication endpoint
Ē	Bind	Attatch a local address to a socket
٤	isten_	Announce villingness to accept connections
Ą	ccept	Block the caller until a correction attempt arrives
	end	Actively attempt to establish a connection  Send some data over the connection

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<u>Primitive</u> Receive	Meaning  Receive some data from the connection
Close	Release the connection
Server  Sorket  Set bind()	Socket James
wait for cornection receive() k request	Send ()
provens response request send()	receivel)
programs:-	APIs used in the program.  Alection of socket calls that  orm the following primary  s between application  corrections to other users on

 close down	data to & from from from the formations.	TCP Server
		Steket () [bind ()]
TCP (lient  [socket()]  [connect()]  /write()/	TCP Connection - Establishment -data (request)-	laccept()  blocks until connection  Client  [read()]
	- data reply —  - EDF  Notification	do something  write()  read()
	Troupication	dose()

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1. Write the logic for your client a server
4. Write the logic for your client & Seever program separately.
logic of Client Server program-
Client - Create socket using socket () function
Side - Connect to the server using paddress of server &
port no. using connect () function
- While true too repeat sending messages from
- While true to repeat sending messages from Client to Seewer, Send & receive data by read()&
ugite ().
- Also try receiving sms from server.
Server - Create sorket using socket function
side - Bird socket to It address & port no.
using bind () method.
- listen to incoming connections using listen ()
1.02
- Accept a connection using acceptSerd & received ata by Justing serd &
receive huntion
receive functions.  - Close connection by close() function.
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