

Assignment 07.

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	Titles Caluateles was # 0
	Title: Calculator using TCP.
	Problem Statement:
	write a TCP socket program for wired network
sodarina)	for performing operations on calculator Demonstrate
	the parket captured using wireshark faitet
	Analyzer Tool for P2P mode
	industrial designation at laborate technological
	Pa-erequisite:
	Transport layer: Roles & Protocols (TCP/UDP)
	socket frograming
- wh 100 5	Wigeshark Tool
	the and larger fails it is well well and
- notes	learning objective:
	students will be able to
	- Understad socket programming
	- Pesign networking applications using TCP protocol
78.	S/w & H/w requirements.
	- windowelo 64-kit
2-11-	- wireshark facket analyzer too)
	- 8GB RAM, 512GB SSD, Intel 15.8 Gen. 4-cre Cp.
	in the second process of the second process
	Theory.
	Ment-Server Model
	. for the life the life was life
12/20	Network applications can be divided in a chent of
	server with a commication lik joining these
1	2-bodies.
- 4-34	the first and



client tequest message > server response message Normally, from client-side it a one one connection
dient request message > server response message it a one one connection
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donate borne de manage de la come one connection
Normally from client-side it a one one connection
Normally from County
and a de it is many one conjection
From Server fide 16 is many one conjection
The standard model for network applications is
The standard moder ise
chent-server model.
A server is a process that is waiting to be
converted by event process so that server can do
gomething for the client Typical BSD sockets
applications courses of two separate application
level processes, chent request a connection 4
server aneph it.
Testpa Instruction applicated rupog Ist protect
chent server Using TCP.
Ty clients send requests to server & server
responds with aithow edgement. svery time
chent communicates with sower & reverve
Eciponie from it.
Algorithm:
sexuer: blank small hasila &
y becate server sockets of kind it to the port.
in lufen for new connection & whom connection assives
acept if interest and all the course
in lead clients message of duplay its.
19 Get a message from work send it to dient



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The state of	NIT Stop.	
-		
	Chent.	
	is create a client crocket of connects if to the servers	
	poit rumber.	
	1) Geb a message from user 4 send if to server	
	11) Kead server's response of display it.	
	10) close the elsent soubet.	
	V>Stop	
	Cookal Functions for the line	
	consention oriented scenario-	
	Stewarts -	
	Server.	
	(Sockep())	
	(kind c) client	_
	(Sockeby)	-
	Tanadal	
	[auepf()] [comerter]	
	1890 client	
	Too Ica Le date (300) cost	<u>—</u>
	procen request	234
	wester data (reply) (read())	



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	Inclusion: Sugessfully implemented Calculates operations
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□ □ Console ≅
     <terminated > TCPClient [Java Application] C:\Progr
     Connecting..
     Start Communication..
     Hello
     Hi
     How are you?
CE
     I'm fine
     Ok then, bye
     bye
     Stop
re
     Closing connection
ts
□ □ □ Console ¤
     <terminated> TCPServer [Java Application] C:\Program Files
     Server started
     Waiting for a client...
     Client has joined.
     Hello
     Hi
C€
     How are you?
     I'm fine
     Ok then, bye
     bye
re
ts
```

