

Name:- Gaurav Poncha]

sub:- DC

class:- BE compS B

Date:- 25/3/21

Roll No:- 44

sign:- 

Q1)  
Ans:-

what is a remote procedure call?

A remote procedure call is an interprocess communication technique that is used for client-server based application. It is also subroutine call or a function call.

working of Rpc:-

- a) A client invokes a client stub procedure, passing parameters in the usual way. The client stub resides within the client's own address space.
- b) The client stub marshalls the parameters into a message.
- c) The client stub passes the message to the transport layer, which sends it to the remote server machine.
- d) On the server, the transport layer passes the message to a server stub.
- e) The transport layer sends the result message back to the client transport layer, which hands the message back to the transport client stub.
- f) The client stub demarshalls the return parameters & execution returns to the caller.

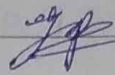
Name:- Gaurav Poncha

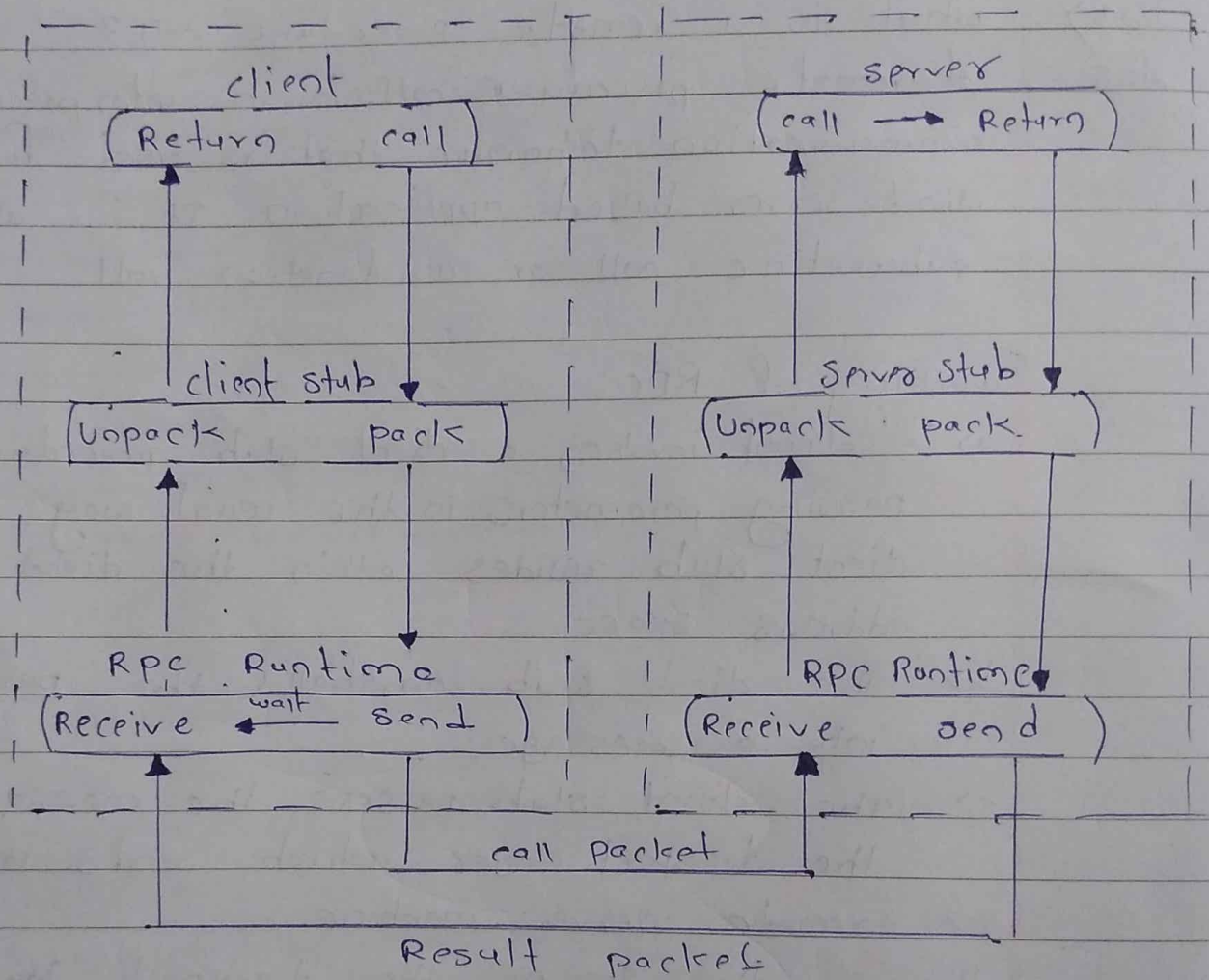
class:- BE comp3 B

Roll No:- 44

subject:- D.C

date:- 25/3/21

Sign:- 





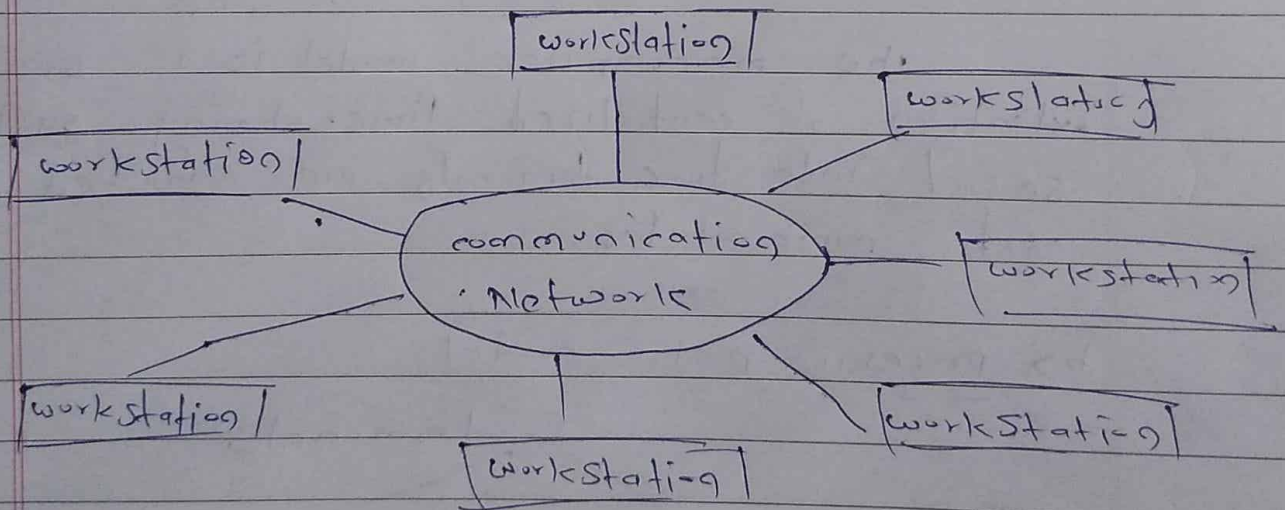


Name:- Praunav Panchal  
class:- BE comp B  
Roll NO:- 44.

Sub:- DC  
Date:- 25/3/21  
Sign:- *[Signature]*

The process-pool model is based on the observation that most of the time a user does not need any computing power but once in a while the user may need a very large of computing power for short time.

⇒ workstation model:-



A distributed computing system based on the workstation model consist of several workstations interconnected by a communication network. In such an environment, at one limit a significant proportion of the workstations ~~by~~ high-speed are idle, which result in waste of large amount of cpu time.



Name:- Braura ponchal

Sub:- DC

Class:- BE comp S B

Date:- 25/3/21

Roll No:- 44.

Sig:- 

Q37  
Ans:-

Suzuki-Kasami's Broadcast Algorithm:-

- a> It is a token based algorithm.
- b> It is used for achieving mutual exclusion in distributed system.
- c> This is the modification to Ricart-Agrwala algo.
- d> In this algorithm Request & Reply message are used for attaining the critical section.
- e> Each process maintains an array  $req$   
 $req[j]$  denotes the sequence no of latest request for process  $j$ .
- f> Additionally, the holder of the token maintain an array  $last$   
 $last[j]$  denotes the sequence number of last visit to critical section for Process  $j$ .

g> Fig. ~~2.1~~ shows example

