

Roll Number	20ECR071	Course Code	20ECL62
Name	KARTEESWAR K P	Course Name	Data Communication and Internetworking Laboratory
Experiment No.	3 a	Experiment Name	ARP/RARP REALIZATION USING NETSIM
Image caption	Source computer sending ARP request to destination computer using source IP and destination IP.		

Address Resolution Protocol

Mode

☒ Sample
☐ User

Input

Number of Nodes

8

Node Number	IP Address
1	192.168.1.1
2	192.168.1.2
3	192.168.1.3
4	192.168.1.4
5	192.168.1.5
6	192.168.1.6
7	192.168.1.7
8	192.168.1.8

ARP Request System

192 . 168 . 1 .

1

ARP Reply System

192 . 168 . 1 .

5

Action

Run

Refresh

Help

Concept , Algorithm , Pseudo Code & Flow Chart

Interface Source Code

Who is 192.168.1.5?

ARP Request

Source IP	Destination IP	Source MAC	Destination MAC
192.168.1.1	192.168.1.5	0D73E4E1DD4D	F F F F F F F F

ARP Request Format

ARP Reply Format

Activate Windows

Go to Settings to activate Windows.

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Image caption	Intermediate device broadcasts ARP request to all other computers connected to it.		

NetSim - Programming
Simulation Programming Basics Help

Address Resolution Protocol

Mode

☒ Sample
☐ User

Input

Number of Nodes
8

Node Number	IP Address
1	192.168.1.1
2	192.168.1.2
3	192.168.1.3
4	192.168.1.4
5	192.168.1.5
6	192.168.1.6
7	192.168.1.7
8	192.168.1.8

ARP Request System
192.168.1.1
1

ARP Reply System
192.168.1.5
5

Action

Run Refresh

Help

Concept , Algorithm , Pseudo Code & Flow Chart

Interface Source Code

Who is 192.168.1.5?

ARP Request

1 2 3 4 5 6 7 8

Device

Source IP	Destination IP	Source MAC	Destination MAC
192.168.1.1	192.168.1.5	0D73E4E1DD4D	F F-F F-F F-F F

ARP Request Format

ARP Reply Format

Activate Windows
Go to Settings to activate Windows.

Roll Number	20ECR071	Course Code	20ECL62
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Image caption	The destination computer sends APR reply for ARP request to source computer.		

NetSim - Programming

Simulation Programming Basics Help

Address Resolution Protocol

Mode

☒ Sample ☐ User

Input

Number of Nodes

Node Number	IP Address
1	192.168.1.1
2	192.168.1.2
3	192.168.1.3
4	192.168.1.4
5	192.168.1.5
6	192.168.1.6
7	192.168.1.7
8	192.168.1.8

ARP Request System 192.168.1.1

ARP Reply System 192.168.1.5

Action

Help

[Concept, Algorithm, Pseudo Code & Flow Chart](#)

[Interface Source Code](#)

I am 192.168.1.5

ARP Reply

Device

ARP Request Format

Source IP	Destination IP	Source MAC	Destination MAC
192.168.1.1	192.168.1.5	0D73E4E1DD4D	FF-F F-F F-F F

ARP Reply Format

Source IP	Destination IP	Source MAC	Destination MAC
192.168.1.5	192.168.1.1	27EE654B26B3	0D73E4E1DD4D

Activate Windows
Go to Settings to activate Windows

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Image caption	ARP packet is sent request and RARP packet is received to know MAC address		

NetSim - Programming

Simulation Programming Basics Help

Address Resolution Protocol

Mode

☒ Sample
☐ User

Input

Number of Nodes

8

Node Number	IP Address
1	192.168.1.1
2	192.168.1.2
3	192.168.1.3
4	192.168.1.4
5	192.168.1.5
6	192.168.1.6
7	192.168.1.7
8	192.168.1.8

ARP Request System

192 . 168 . 1 .

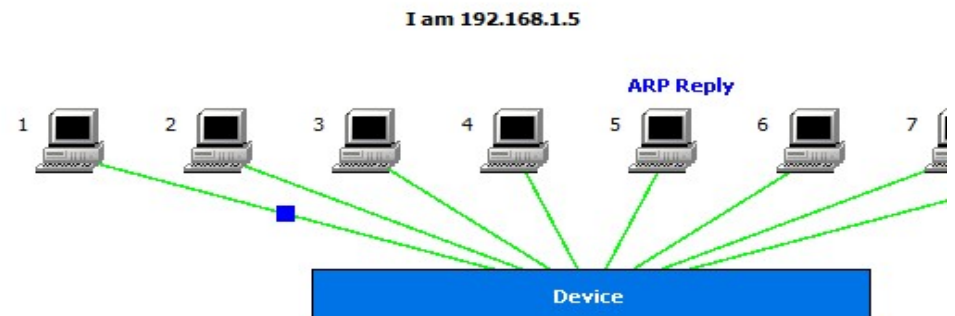
1

ARP Reply System

192 . 168 . 1 .

5

Action



ARP Request Format

ARP Reply Format

Source IP	Destination IP	Source MAC
192.168.1.1	192.168.1.5	0D73E4E1DD4D
192.168.1.5	192.168.1.1	27EE654B26B3