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EXPERIMENT: 26

AIM: TO STUDY THE ARP PROTOCOLS.

PROGRAM:

arpclient.java import java.io.*; import java.net.*; import java.util.*; public class arpc

{

public static void main(String args[])

{

try

{

BufferedReader in=new BufferedReader(new InputStreamReader(System.in)); Socket clsct=new Socket("127.0.0.1",200);

DataInputStream din=new DataInputStream(clsct.getInputStream()); DataOutputStream dout=new DataOutputStream(clsct.getOutputStream()); System.out.println("Enter the Logical address(IP):");

String str1=in.readLine(); dout.writeBytes(str1+'\n'); String str=din.readLine();

System.out.println("The Physical Address is: "+str); clsct.close();

```
}
catch (Exception e)
{
System.out.println(e);
}
}
}
```

arpServer.java import java.io.*; import java.net.*; import java.util.*;

```
public class arpServer {
public static void main(String args[])
{
try
{
ServerSocket obj=new ServerSocket(2005); Socket obj1=obj.accept();
while(true)
{
DataInputStream din=new DataInputStream(obj1.getInputStream());
DataOutputStream dout=new
DataOutputStream(obj1.getOutputStream()); String
str=din.readLine();
String ip[]={"165.165.80.80","165.165.79.1"};
String mac[]={"6A:08:AA:C2","8A:BC:E3:FA"};
```

```
for(int i=0;i<ip.length;i++)
{
if(str.equals(ip[i]))
{
dout.writeBytes(mac[i]+'\n'); break;
}
}obj.close();
}
}
catch(Exception e)
{
System.out.println(e);
}
}
}
```

OUTPUT:

```
arpClient D:\>javac arpc.java D:\>java arpc
Enter the Logical address(IP): 165.165.80.80
The Physical Address is:6A:08:AA:C2
```

RESULT: Therefore study of ARP protocols has been successfully excecuted using JAVA programming