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Expt. No. <u>01</u>	Page No. <u>01</u>
Expt. Name. Creation of Date And Time Sever	Date. 27/06/18

Aim: Program to print date and time in client by server.

Alogorithm:

SERVER

STEP1: Create instances for socket and ServerSocket class.

STEP2: Use the port 8020 for TCP.

STEP3: Make the PrintStream object connect to the OuputStream using Socket.

STEP4: Create an instance of the Date class and write it into the Socket.

STEP5: Get the IP address of the client using the socket and getInetAddress().

CLIENT

STEP1: Create instances for socket class with the port number 8020.

STEP2: Create an object of DataInputStream and make it to get data from server through the socket.

STEP3: Read the Date object.

STEP4: Print the obtained date.

```
server:
```

```
import java.net.*;
import java.io.*;
import java.util.*;
public class server2 extends Thread
{
  public static void main(String[] args) throws Exception
{
    ServerSocket sSocket = new ServerSocket(1000);
    Socket cSocket=sSocket.accept();
    BufferedReader br=new BufferedReader(new InputStreamReader(cSocket.getInputStream()));
```

```
PrintWriter out=new PrintWriter(cSocket.getOutputStream(),true);
        Date d = new Date();
        try
             while(true)
             d= new Date();
        out.println("Time at server;" +d.toString());
        System.out.println(br.readLine());
        sleep(1000);
        }
        }
        catch(IOException e)
             {
        System.out.println("----Client has Closed-----");
             }
        }
        }
Client:
        import java.net.*;
        import java.io.*;
        public class client2
        public static void main (String[] arg) throws Exception
        {
        try
        {
        Socket s=new Socket(InetAddress.getLocalHost(),1000);
        BufferedReader br = new BufferedReader(new
        InputStreamReader(s.getInputStream()));
        String input;
        PrintWriter out=new PrintWriter(s.getOutputStream(),true);
```

```
while((input=br.readLine())!=null)
{
    System.out.println(input);
    out.println("Date and Time Received------client Acknowledge-----");
}
} catch(Exception e)
    {
    }
}
```

Server:

```
C:\Windows\system32\cmd.exe-java dateserver

C:\Users\staff.TOWER>e:

E:\>set path="D:\jdk1.7.0_79\bin"

E:\>cd swetha

E:\swetha\javac dateserver.java

E:\swetha\java dateserver
```

Client:

```
Microsoft Windows [Version 6.1.76001
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\>e:
E:\>set path="D:\jdk1.7.0_79\bin"

E:\>cd swetha
E:\swetha\javac dateclient.java
Note: dateclient.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

E:\swetha\javac dateclient
The data in the server is: Wed Sep 12 12:05:44 IST 2018

E:\swetha\>
```

Expt. No. <u>02</u>	Page No. <u>05</u>
Expt. Name. Print the client's Address on the sereve.	Date. 04/07/18

Aim: Program to print client address at server side.

Algorithm:

SERVER

STEP1: Create instances for socket and ServerSocket class.

STEP2: Use the port 9000 for TCP.

STEP3: Make the PrintStream object connect to the OuputStream using Socket.

STEP4: Create an instance of the Date class and write it into the Socket.

STEP5: Get the IP address of the client using the socket and getInetAddress ().

STEP6: Print the client's IPAddress.

CLIENT

STEP1: Create instances for socket class with the port number 9000.

STEP2: Create an object of DataInputStream and make it to get data from server through the socket.

STEP3: Read the Date object.

STEP4: Print the obtained date.

Program:

Server:

```
import java.net.*;
import java.io.*;
class server4
{
  public static void main(String[] args) throws Exception
  {
    ServerSocket s1 = new ServerSocket(8000);
    System.out.println("Server Running");
    Socket s2=s1.accept();
    InetAddress a=InetAddress.getLocalHost();
}
```

```
String add=a.getHostAddress();
      BufferedReader in=new BufferedReader(new
      InputStreamReader(s2.getInputStream()));
      PrintWriter out=new PrintWriter(s2.getOutputStream(),true);
      System.out.println("Client Connected");
      System.out.println(s2);
      out.println(add);
      System.out.println("Client's IP is ");
      System.out.println(in.readLine());
      s1.close();
      s2.close();
      }
      }
Client:
      import java.net.*;
      import java.io.*;
      class client4
      public static void main(String[] args) throws Exception
      InetAddress a=InetAddress.getLocalHost();
      Socket s2 = new Socket(a,8000);
      String add=a.getHostAddress();
      BufferedReader in=new BufferedReader(new
      InputStreamReader(s2.getInputStream()));
      PrintWriter out=new PrintWriter(new
      OutputStreamWriter(s2.getOutputStream()),true);
      System.out.println(in.readLine());
      out.println(add);
      s2.close();
```

Server:

```
C:\Windows\system32\cmd.exe - java ipserver

Microsoft Windows [Uersion 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\e:

E:\>cd swetha

E:\swetha\set path="D:\jdk1.7.0_79\bin"

E:\swetha\javac ipserver.java
Note: ipserver.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

E:\swetha\java ipserver
the client system address is:TOWER-019/10.192.95.193
```

Client:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\>e:

E:\>cd swetha

E:\swetha\>set path="D:\jdk1.7.0_79\bin"

E:\swetha\javac ipclient.java

E:\swetha\java ipclient

E:\swetha\>
```

Expt. No. <u>03</u>	Page No. <u>08</u>
Expt. Name. Creation of UDP server	Date. 11/07/18

Aim: To perform a java program for UDP client and server.

Algorithm:

SERVER:

- 1.Create a new Datagram Socket.
 - 2.Create a new Datagram packet.
 - 3.Create a message to be sent.
 - 4. Convert into bytes
 - 5.create a packet
 - 6.send packet
 - 7.wait for acknowledgement from client
 - 8.print data from client
 - 9.stop the program

CLIENT:

- 1. Create new Datagram Socket.
- 2.Create new Datagram packet.
- 3.Get the packet.
- 4.Print the content.
- 5.Create a new packet.
- 6.send to server
- 7.Stop the program.

```
Program:
 Server:
       import java.net.*;
       import java.io.*;
       public class udpserver
       public static int client=789;
       public static int server=790;
       public static void main(String arg[]) throws IOException
       String s;
       InetAddress id=InetAddress.getLocalHost();
       BufferedReader dis=new BufferedReader(new InputStreamReader(System.in));
       DatagramSocket ds=new DatagramSocket(server);
       byte b[]=new byte[1024];
       System.out.println("Server Side.... Sending....");
       System.out.println("\n"+id);
       while(true)
       {
       s=dis.readLine();
       if(s.equals("end"))
       b=s.getBytes();
       DatagramPacket dp=new DatagramPacket(b,s.length(),id,client);
       ds.send(dp);
       break;
       }
       else
       {
       b=s.getBytes();
       DatagramPacket dp=new DatagramPacket(b,s.length(),id,client);
       ds.send(dp);
       }
       }
```

```
}
     }
Client:
     import java.net.*;
     import java.io.*;
     public class udpclient
      public static int client=789;
     public static void main(String args[]) throws IOException
     {
     DatagramSocket ds=new DatagramSocket(client);
     byte b[]=new byte[1024];
     System.out.println("client....receiving....");
     while(true)
     DatagramPacket dp=new DatagramPacket(b,b.length);
     ds.receive(dp);
     String s=new String(dp.getData(),0,dp.getLength());
     if(s.equals("end")) break;
     else System.out.println(s);
     }
     }
```

server:

```
C:\Windows\system32\cmd.exe-java udpserver

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\>e:

E:\>cd swetha

E:\swetha\>set path="D:\jdk1.7.0_79\bin"

E:\swetha\>javac udpserver.java

E:\swetha\>java udpserver
Server Side... Sending...

TOWER-019/10.192.95.193
```

Client:

```
C:\Windows\system32\cmd.exe - java udpclient

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\>e:
E:\>cd swetha

E:\swetha\>set path="D:\jdk1.7.0_79\bin"

E:\swetha\javac udpclient.java

E:\swetha\java udpclient

client....receiving....
```

Expt. No. <u>04</u>	Page No. <u>12</u>
Expt. Name. Creation of chat program	Date. 18/07/18

Aim: Program to create simple chat application.

Algorithm:

SERVER

STEP1: Instances of vector class is used to keep track of number of clients that can be connected and currently logged.

STEP2: The method that is responsible for sending the message to the clients is made synchronized.

STEP3: Server is capable of keeping into account the number of users. It adds and removes the client from the vector list as and when the connections are established and terminated.

CLIENT

STEP1: The client receives the name of the user and message of that user and sends it to client. Server then passes it on to all clients connected.

```
Server:
```

```
while(true)
      {
      System.out.println("server");
      s=in.readLine();
      out.println("server:"+s);
      System.out.println(br.readLine());
      catch(IOException e)
      System.out.println("client has closed");
client:
      import java.net.*;
      import java.io.*;
      public class cchatclient
      public static void main(String arg[])throws Exception
      Socket s=new Socket(InetAddress.getLocalHost(),4000);
      BufferedReader br=new BufferedReader(new
      InputStreamReader(s.getInputStream()));
      BufferedReader in=new BufferedReader(new InputStreamReader(System.in));
      PrintWriter out=new PrintWriter(s.getOutputStream(),true);
      String input,t;
      while(true)
      {
      System.out.println("client");
      out.println("client:"+in.readLine());
      System.out.println(br.readLine());
      }
      }
```

}

Output:

server:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sra

D:\sra\javac cchatserver2.java

D:\sra\javac cchatserver2
server
hi
client:hello
server
how are you
client: am fine
server
```

Client:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sra

D:\sra\javac cchatclient.java

D:\sra\java cchatclient
client
hello
server:hi
client
i am fine
server:how are you
client
client
client
```

Expt. No. <u>05</u>	Page No. <u>15</u>
Expt. Name. Calculation of checksum for packet date and file.	Date. 25/07/18

Aim: Program to perform checksum for Packet Date and file

Algorithm:

Server Side

- 1. Create objects of ServerSocket and Socket class
- 2. Create input and output buffers
- 3. Listen for client to connect
- 4. Get the data from client
- 5. Calculate the CRC
- 6. Get the CRC from client
- 7. If calculated CRC is same as that of received CRC, then send success message to client
- 8. Else send failure message
- 9. Close sockets
- 10. Stop

Client Side

- 1. Create object of Socket class and connect to the server
- 2. Send the data along with the CRC
- 3. Get the response from server and print
- 4. Close socket
- 5. Stop

```
Server:
```

```
ServerSocket sSocket=new ServerSocket(1000);
                   Socket cSocket=sSocket.accept();
                   BufferedReader br=new BufferedReader(new
      InputStreamReader(cSocket.getInputStream()));
                   PrintWriter out=new
PrintWriter(cSocket.getOutputStream(),true);
                   String str1,str2;
                   str2=br.readLine();
                   System.out.println("INCOMING DATA: " + str2);
                   StringTokenizer s=new StringTokenizer(str2,"$");
                   CRC32 c=new CRC32();
                   str1=s.nextToken();
                   for(int i=0;i<s.countTokens()+2;i++)</pre>
                   {
                          System.out.println(str1);
                          System.out.println("str1");
                          System.out.println(str2);
                          System.out.println("str2");
                   System.out.println(str1);
                   c.update(str1.getBytes());
System.out.println("str3");
                   long rCRC=Long.parseLong(br.readLine()),cCRC=c.getValue();
                   System.out.println("rCRC = " + rCRC);
                   System.out.println("cCRC = " + cCRC);
System.out.println("dsfghdfd");
                   if(rCRC==cCRC)
                   {
                          System.out.println("CRC Check successful...");
                          System.out.println("CRC Check successful...");
                   }
                   else
```

```
{
                                 out.println("CRC Check un-successful...");
                                 System.out.println("CRC Check un-successful...");
                          }
                   catch(Exception e){}
        }
      }
Client:
      import java.net.*;
      import java.io.*;
      import java.lang.*;
      import java.util.zip.*;
      public class Client
      public static void main(String[] args) throws Exception
        {
                   try
                   {
                          Socket s=new Socket(InetAddress.getLocalHost(),1000);
                          BufferedReader br=new BufferedReader(new
      InputStreamReader(s.getInputStream()));
                          PrintWriter out=new PrintWriter(s.getOutputStream(),true);
                          String data="";
                          CRC32 c=new CRC32();
                          for(int i=0;i<args.length;i++)</pre>
                          {
                                 System.out.println(args[i]);
                                 c.update(args[i].getBytes());
                                 data=data+args[i]+"$";
                          }
```

```
System.out.println(data);
System.out.println("CRC = " + c.getValue());
out.println(data);
out.println(c.getValue());
System.out.println(br.readLine());
}
catch(Exception e){}
}
```

server:

```
D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sra

D:\sra\javac Server_java

D:\sra\java Server
INCOMING DATA: welcome$
welcome
str1
welcome$
str1
welcome$
str1
welcome$
str2
welcome
str1
welcome$
str2
welcome
str3
rCRC = 936075699
cCRC = 936075699
cCRC = 936075699
dsfghdfd
CRC Check successful...
CRC Check successful...
CRC Check successful...
```

Client:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:
D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sra

D:\sra\javac Client.java

D:\sra\javac Client welcome
welcome
welcome
concest
CRC = 936075699

D:\sra\
```

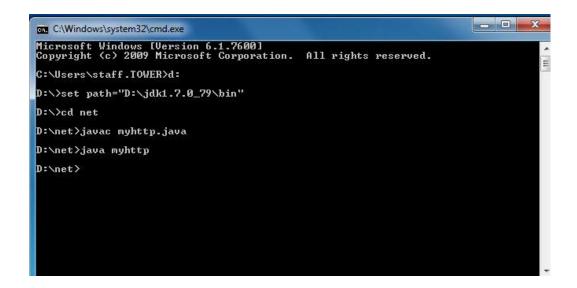
Expt. No. <u>06</u>	Page No. <u>20</u>
Expt. Name. Program to implement HTTP protocol.	Date. 29/08/18

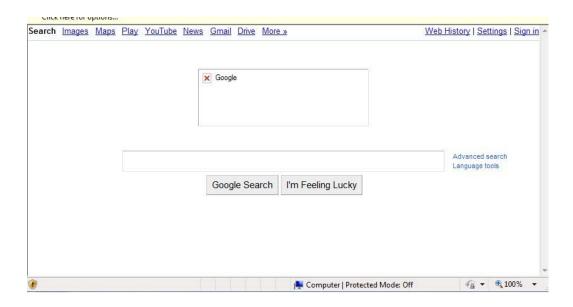
Aim: Program to implement HTTP protocol and to print URI for the Client.

Algorithm:

STEP 1: Create the URL with Http URL Connections STEP 2: Define the Http Protocol for Client Connections. STEP3: Get the Http Connection. STEP4:Print the URL for the Client.

```
import java.io.*;
import java.net.*;
public class myhttp
{
public static void main(String args∏)throws IOException
{
URL url=new URL("http://www.google.com/");
URLConnection conn=url.openConnection();
conn.connect();
InputStreamReader content= new InputStreamReader(conn.getInputStream());
FileWriter f=new FileWriter ("abc.html");
for(int i=0;i!=-1;i= content.read())
{
f.write((char) i);
}
}
}
```





Expt. No. <u>07</u>	Page No. <u>22</u>
Expt. Name. Creation of Telnet Protocol	Date. 05/09/18

Aim: Program to perform telnet protocol using java.

Algorithm:

SERVER:

STEP1. Declare the header file and create class name.

STEP2. Create an object in the server which check where its connection is established or not.

STEP3. Now send the message as input to client.

STEP4. Print the message

CLIENT:

STEP1. Declare the header file.

STEP2. Create a class name for class.

STEP3. By using buffer condition are read and print the input.

STEP4. Display the connection message which is given in server.

Program:

Server:

```
import java.lang.*;
import java.io.*;
import java.net.*;

class TelnetServer {
   public static void main(String args[]) {
      String data = "Hello Client!! ";
      try {

        ServerSocket srvr = new ServerSocket(8088);
      Socket skt = srvr.accept();
      System.out.println("Client Connected!");
      PrintWriter out = new PrintWriter(skt.getOutputStream(), true);
```

```
DataInputStream din=new DataInputStream(skt.getInputStream());
            if(din.readUTF().equals("1")){
            System.out.println("String: '" + data);
            out.print(data);
            out.close()
            skt.close();
            srvr.close();
            din.close(); /
          }
          catch(Exception e) {
            System.out.print(e);
Client:
      import java.net.*;
      import java.io.*;
      class TelnetClient
         public static void main(String args[]) throws Exception
         {
           Socket soc=new Socket("localhost",8088);
           String Command;
           DataInputStream din=new DataInputStream(soc.getInputStream());
           DataOutputStream dout=new DataOutputStream(soc.getOutputStream());
           BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
           System.out.println("Welcome to Telnet Client");
           System.out.println("< Telnet Prompt >");
           Command=br.readLine();
           dout.writeUTF(Command);
           System.out.println(din.readLine());
           soc.close();
```

```
din.close();
    dout.close();
    br.close();
}
```

Server:

```
C:\Windows\system32\cmd.exe - java TelnetServer

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sra

D:\sra>javac TelnetServer.java

D:\sra>java TelnetServer

Client Connected!
```

Client:

```
C:\Windows\system32\cmd.exe-java TelnetClient

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sra

D:\sra\javac TelnetClient.java
Note: TelnetClient.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

D:\sra\javac TelnetClient
\text{Welcome to Telnet Client}
\text{Velcome to Telnet Client}
\text{Velcome to Telnet Client}
```

Expt. No. <u>08</u>	Page No. <u>25</u>
Expt. Name. Implement FTP using TCP	Date. <u>05/09/18</u>

Aim: Program to implement FTP using TCP.

Algorithm:

CLIENT

STEP 1: Create instance for the Socket class and establish connectivity with the

server

STEP 2: Use the port number 4000

STEP 3: Receive the file from the server

STEP 4: Reset the connection with the server

SERVER

STEP 1: Create instances for the serversocket class and accept the server port

STEP 2: Read the filename to be opened

STEP 3: Send the file to the client

```
import java.net.*;
import java.io.*;
public class ftpserver extends Thread
{
   public static void main(String args[])
   {
     try
     {
        ServerSocket ss=new ServerSocket(4000);
        Socket s=ss.accept();
        BufferedReader br=new BufferedReader(new InputStreamReader(s.getInputStream()));
        BufferedReader in=new BufferedReader(new InputStreamReader(System.in));
        PrintWriter out=new PrintWriter(s.getOutputStream(),true);
        String fn,contents=" ",temp;
        System.out.println("enter the file name to open: ");
```

```
fn=in.readLine();
      File f=new File(fn);
      if(f.isFile()&&f.canRead())
      BufferedReader fil=new BufferedReader(new FileReader(fn));
      while((temp=fil.readLine())!=null)
      contents=contents+temp+"\n";
      }
      else
      contents="error in input file";
      System.out.println(" the contents of the file is:\n"+contents);
      System.out.println("sending the file to the client....");
      out.println(contents);
      }
      catch(Exception e)
      System.out.println(e);
Client:
      import java.net.*;
      import java.io.*;
      public class ftpclient {
      public static void main(String args[])
      {
      try
      Socket s=new Socket(InetAddress.getLocalHost(),4000);
      BufferedReader br=new BufferedReader(new
      InputStreamReader(s.getInputStream()));
      String str;
      while((str=br.readLine())!=null)
      System.out.println(str);
```

```
}
catch(Exception e)
{
    System.out.println("The connection to the server has been reset");
}
}
```

Server:

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Uersion 6.1.76001
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sravanii

D:\sravanii>javac ftpserver.java

D:\sravanii>java ftpserver
enter the file name to open:
sravs.txt
the contents of the file is:
hello good morning

sending the file to the client....

D:\sravanii>
```

Client:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sravanii

D:\sravanii\javac ftpclient.java

D:\sravanii\java ftpclient
hello good morning

The connection to the server has been reset

D:\sravanii>
```

Expt. No. <u>09</u>	Page No. <u>28</u>
Expt. Name. Implement FTP using TCP	Date. <u>05/09/18</u>

Aim: Program to implement FTP using UDP.

Algorithm:

CLIENT

STEP 1: Create instance for the Socket class and establish connectivity with the

server

STEP 2: Use the port number 8000.

STEP 3: Receive the file from the server

STEP 4: Reset the connection with the server

SERVER

STEP 1: Create instances for the serversocket class and accept the server port

STEP 2: Read the filename to be opened

STEP 3: Send the file to the client

```
import java.net.*;
import java.io.*;
public class Server
{
    public static void main(String[] args) throws Exception
    {
        InetAddress sa=InetAddress.getByName(null);
        BufferedReader in=new BufferedReader(new InputStreamReader(System.in));
        String msg="",fn,tmp;
        System.out.println("Enter the File name:");
        fn=in.readLine();
        File f=new File(fn);
        if(f.isFile() && f.canRead())
        {
            BufferedReader fil=new BufferedReader(new FileReader(fn));
            while((tmp=fil.readLine())!=null)
```

```
msg=msg+tmp+"\n";
           }
     else
           msg="ERROR IN IMPUT FILE";
           System.out.println(msg);
           byte data[]=new byte[msg.length()];
           msg.getBytes(0,msg.length(),data,0);
           DatagramSocket ds = new DatagramSocket(8000);
           DatagramPacket dp=new DatagramPacket(data,data.length,sa,8001);
           ds.send(dp);
           }
     }
Client:
     import java.net.*;
     import java.io.*;
     public class udpclient
     {
           public static void main(String∏ args) throws Exception
           InetAddress sa=InetAddress.getLocalHost();
           byte data[]=new byte[1024];
           DatagramSocket ds = new DatagramSocket(8001);
           DatagramPacket dp=new DatagramPacket(data,data.length);
           ds.receive(dp);
           String msg=new String(dp.getData(),0,0,dp.getLength());
           System.out.println("Received data: " + msg);
     }
     }
```

Server:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER\d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sravanii

D:\sravanii\javac ftpserver.java

D:\sravanii\java ftpserver
enter the file name to open:
sravs.txt
the contents of the file is:
hello good morning

sending the file to the client...

D:\sravanii>
```

Client:

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\staff.TOWER>d:

D:\>set path="D:\jdk1.7.0_79\bin"

D:\>cd sravanii

D:\sravanii>javac ftpclient.java

D:\sravanii>java ftpclient
hello good morning

The connection to the server has been reset

D:\sravanii>
```

Expt. No. <u>10</u>	Page No. <u>31</u>
Expt. Name. Router Configuration	Date. 05/09/18

Aim: Study of Router Configuration Commands.

Procedure:

1)	To enter privileged EXEC,	enter the enable EXEC command.
٠,		

Router> enable

Password:

Router#

2) To exit privileged EXEC mode, enter the disable EXEC command.

Router# disable

Router>

3) To enter Global Configuration mode, enter the Configure Terminal command.

Router# configure terminal

Router(config)#

4) To end the current configuration session and return to privileged EXEC mode, use the end global configuration command.

Router(config)# end

Router>

5) The show interfaces command will show the information about all the interfaces

Router# show interfaces

6) A show command is used in privileged EXEC mode to verify the configuration.

Router# show interface serial 0/1/0

7) the exit (global) command is used to move from global configuration mode to privileged EXEC mode, the disable command is used to move from privileged EXEC mode to user EXEC mode, and the logout command is used to log off

Router(config)# exit

Router# disable

Router> logout

8) The command hostname is used to specify the name for the router.

```
Router(config) # hostname Router
Router(config) #
```

9) The command enable secret password is used to specify an encrypted password to prevent unauthorized access to the router.

```
Router(config) # enable secret cr1ny5ho
Router(config) #
```

10) The Interface command is used to enter into the configuration mode for a Fast Ethernet WAN interface on the router.

```
Router(config) # interface fastethernet 0
Router(config-int) #
```

11)The command ip address is used to set the IP address and subnet mask for the specified Fast Ethernet interface.

```
Router(config-int) # ip address 192.1.12.2 255.255.255.0
Router(config-int) #
```

12)The no shutdown command enables the Ethernet interface, changing its state from administratively down to administratively up.

```
Router(config-int) # no shutdown
Router(config-int) #
```

Result: Study of Router Configuration Commands was completed.