**CODNG:**

import java.net.\*;

import java.io.\*;

class httpclient

{

public static void main(String[]args)throws Exception

{

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\nName:R.SRIDEVI");

System.out.println("\nRoll.No:20UIT021");

System.out.println("\nEx.Name:Download the webpage using TCP Spckets");

System.out.println("\nEx.No:8");

System.out.println("\nDate:18.08.22");

System.out.println("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

DataInputStream input = new DataInputStream(System.in);

String hostname = input.readLine();

Socket s1= new Socket(hostname,80);

PrintWriter pw=new PrintWriter(s1.getOutputStream(),true);

BufferedReader br = new BufferedReader(new InputStreamReader(s1.getInputStream()));

pw.println("GET / HTTP/1.1\nHost: "+hostname+"\n\n");

String data;

while((data=br.readLine()) != null)

{

System.out.println(data);

}

}

}

**OUTPUT:**

[itstudent@a4it118 ~]$ javac httpclient.java

Note: httpclient.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

[itstudent@a4it118 ~]$ java httpclient

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Name:R.SRIDEVI

Roll.No:20UIT021

Ex.Name:Download the webpage using TCP Spckets

Ex.No:8

Date:18.08.22

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

www.google.com

HTTP/1.1 200 OK

Date: Thu, 18 Aug 2022 08:52:20 GMT

Expires: -1

Cache-Control: private, max-age=0

Content-Type: text/html; charset=ISO-8859-1

P3P: CP="This is not a P3P policy! See g.co/p3phelp for more info."

Server: gws

X-XSS-Protection: 0

X-Frame-Options: SAMEORIGIN

Set-Cookie: 1P\_JAR=2022-08-18-08; expires=Sat, 17-Sep-2022 08:52:20 GMT; path=/; domain=.google.com; Secure

Set-Cookie: AEC=AakniGMfLuthL6BQe985D44DjIXK0YMxEG6l\_u4S4AyrPY-XGElS57DOZ6s; expires=Tue, 14-Feb-2023 08:52:20 GMT; path=/; domain=.google.com; Secure; HttpOnly; SameSite=lax

Set-Cookie: NID=511=ALFHD-seDOX30N-lNwPKd-3KEA\_Dehp7ba3W5CVb4lox4CN087aJx5C0HxdEPUIVlVDJg5ckPeAmRX9pErkxh4c-AGUi7QFkK24n7a4\_\_5SbtVH-kDkvoK85GSNjN0jxDrxTDbQJc0qFXMVr7ZL3hov1\_4f9OoVh2vVe0IFSNO4; expires=Fri, 17-Feb-2023 08:52:20 GMT; path=/; domain=.google.com; HttpOnly

Accept-Ranges: none

Vary: Accept-Encoding

Transfer-Encoding: chunked

Via: HTTP/1.1 forward.http.proxy:6544

Connection: keep-alive

1000

<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><meta content="text/html; charset=UTF-8" http-equiv="Content-Type"><meta content="/images/branding/googleg/1x/googleg\_standard\_color\_128dp.png" itemprop="image"><title>Google</title><script nonce="57kxYqs0J1uZ4x8GYynoLw">(function(){window.google={kEI:'xP39Yr7dGsqZr7wP0uaFwAk',kEXPI:'0,1302536,56873,6059,206,2415,2389,2316,383,246,5,5367,1123753,1197771,120,503,380096,16115,17444,11240,17572,4859,1361,9291,3023,2820,14765,4998,13228,3847,10622,22741,5081,887,706,1279,2742,149,1103,840,6297,3514,606,2023,1777,520,14670,3227,2845,7,5599,23475,4696,1850,2615,3783,9359,3,346,230,1014,1,5445,148,11323,2652,4,1528,2304,923,6116,22023,3050,2658,7357,13658,4437,16786,5821,2536,4094,17,4035,3,3541,1,39042,2,3110,2,14022,2715,11401,9865,1758,5679,1020,2378,28745,4568,6255,23421,1252,5835,14968,4332,8,4231,1850,1395,445,2,2,1,10957,13669,2006,239,7808,108,6582,799,2,14678,2162,5179,14455,8,1921,9779,23,6865,5526,5225,4140,1114,1529,6899,1749,1624,1460,5954,2253,3393,3880,484,68,983,123,700,4,1,2,2,2,2,3847,3237,7,1,761,548,3712,381,181,1241,1208,674,4390,259,308,195,1464,1843,48,1580,919,278,1707,14,82,332,320,2,79,158,528,455,2097,176,225,231,1,37,81,165,201,38,1583,165,604,699,2,3,2509,2,4,526,68,1638,393,173,52,1760,537,1068,8,269,850,81,175,1570,349,7,1982,2,11360363,2804424,3311,141,801,19729,2,300,46,1194,5,8,3,18892196,5057078,487,2769681,1271975,1964,2935,159,1358,12221,3405,716,4824,1632,1192',kBL:'a-oT'};google.sn='webhp';google.kHL='en-IN';})();(function(){

var f=this||self;var h,k=[];function l(a){for(var b;a&&(!a.getAttribute||!(b=a.getAttribute("eid")));)a=a.parentNode;return b||h}function m(a){for(var b=null;a&&(!a.getAttribute||!(b=a.getAttribute("leid")));)a=a.parentNode;return b}

function n(a,b,c,d,g){var e="";c||-1!==b.search("&ei=")||(e="&ei="+l(d),-1===b.search("&lei=")&&(d=m(d))&&(e+="&lei="+d));d="";!c&&f.\_cshid&&-1===b.search("&cshid=")&&"slh"!==a&&(d="&cshid="+f.\_cshid);c=c||"/"+(g||"gen\_204")+"?atyp=i&ct="+a+"&cad="+b+e+"&zx="+Date.now()+d;/^http:/i.test(c)&&"https:"===window.location.protocol&&(google.ml&&google.ml(Error("a"),!1,{src:c,glmm:1}),c="");return c};h=google.kEI;google.getEI=l;google.getLEI=m;google.ml=function(){return null};google.log=function(a,b,c,d,g){if(c=n(a,b,c,d,g)){a=new Image;var e=k.length;k[e]=a;a.onerror=a.onload=a.onabort=function(){delete k[e]};a.src=c}};google.logUrl=n;}).call(this);(function())

**CODING:**

**SERVER SIDE:**

import java.net.\*;

import java.io.\*;

class fileserver

{

public static void main(String args[]) throws Exception

{

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\nIT1581-Computer Networks Laboratory\n");

System.out.println("\tRollNumber:20UIT021"+"\n\tName\t:R.SRIDEVI");

System.out.println("\tEx.No\t:9.3");System.out.println("\tEx.Name:FILE TRANSFER USING TCP SOCKET");

System.out.println("\tDate\t:18.08.2022");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

ServerSocket ss = new ServerSocket(1234);

Socket s1 = ss.accept();

File f1 = new File("abc.txt");

FileReader fr = new FileReader(f1);

BufferedReader br = new BufferedReader(fr);

BufferedWriter bw = new BufferedWriter (new OutputStreamWriter(s1.getOutputStream()));

System.out.println("Connection Successfully");

String data;

while((data=br.readLine())!=null)

{

bw.write(data);

System.out.println("Sending Data");

}

System.out.println("Data Sent Successfully");

br.close();

bw.close();

s1.close();

}

}

**CLIENT SIDE:**

import java.net.\*;

import java.io.\*;

class fileclient

{

public static void main(String args[]) throws Exception

{

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\nIT1581-Computer Networks Laboratory\n");

System.out.println("\tRollNumber:20UIT021"+"\n\tName\t:R.SRIDEVI");

System.out.println("\tEx.No\t:9.3");

System.out.println("\tEx.Name:FILE TRANSFER USING TCP SOCKET");

System.out.println("\tDate\t:18.08.2022");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

Socket client = new Socket("localhost",1234);

BufferedReader br = new BufferedReader(new InputStreamReader(client.getInputStream()));

FileWriter fw = new FileWriter("abc112.txt");

BufferedWriter bw = new BufferedWriter(fw);

String data;

while((data=br.readLine())!=null)

{

System.out.println("Receiving Data");

bw.write(data);

}

System.out.println("Data Received Successfully");

bw.close();

client.close();

}

}

**OUTPUT:**

[itstudent@a4it118 ~]$ javac fileserver.java

[itstudent@a4it118 ~]$ java fileserver

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IT1581-Computer Networks Laboratory

RollNumber:20UIT021

Name :R.SRIDEVI

Ex.No :9.3

Ex.Name:FILE TRANSFER USING TCP SOCKET

Date :18.08.2022

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Connection Successfully

Sending Data

Data Sent Successfully

[itstudent@a4it118 ~]$

[itstudent@a4it118 ~]$ javac fileclient.java

[itstudent@a4it118 ~]$ java fileclient

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

IT1581-Computer Networks Laboratory

RollNumber:20UIT021

Name :R.SRIDEVI

Ex.No :9.3

Ex.Name:FILE TRANSFER USING TCP SOCKET

Date :18.08.2022

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Receiving Data

Data Received Successfully

[itstudent@a4it118 ~]$

