/\*  
 1. Name / Date: satya Yoganand Addala / 09-10-2022  
  
 2. Java version used (java -version), if not the official version for the class: 17.0.2  
  
 3. Precise command-line compilation examples / instructions:  
 > javac MyWebServer.java  
  
 4. Precise examples / instructions to run this program:  
  
 In separate shell windows run all the below commands :  
  
 > java MyWebServer.java  
  
 All acceptable commands are displayed on the various consoles.  
  
 5. Notes:  
  
 \* This File can be used to run localhost server on ports 2540 and connects with the webserver at the url http://localhost:2540/.  
 \* It displays all the files that are included, and it can differ between text files,html files and directories based on the given conditions.  
 \* This also handles the webAdd.html where it takes the inputs from webserver and displays the result once the submit button is clicked.  
  
  
\*/  
  
import java.io.\*;  
import java.net.ServerSocket;  
import java.net.Socket;  
  
public class MyWebServer {  
  
 public static void main(String[] var0) throws IOException {  
 int q\_len = 6; /\* Allowed number of connections from client to server at the same time \*/  
 int port = 2540; /\* Port used for making connection \*/  
 Socket sock;  
 try (ServerSocket servSock = new ServerSocket(port, q\_len)) {  
 System.*out*.println("Satya Yoganand's Mini Webserver 1.8 starting up,listening at port 2540.\n");  
  
 while (true) {  
 sock = servSock.accept(); /\* This is an accept method for listening from the client and is also a blocking call \*/  
 new Worker(sock).start(); /\* This Start method will invoke the run method in Worker class \*/  
 }  
 } /\* The ServerSocket will take the portNumber and queue length on which it is going to communicate \*/  
 }  
}  
class Worker extends Thread {  
  
 //Create a Socket Object  
 Socket sock;  
 // Constructor for fetching the Socket  
 Worker(Socket s) {  
 sock = s;  
 }  
  
 public void run() {  
 /\* PrintStream is used to send information to the Client and BufferedReader is used to get the input from the Client \*/  
 PrintStream out;  
 BufferedReader in;  
  
 try {  
 /\* Fetching the inputs for the server using BufferedReader through inputStream \*/  
 in = new BufferedReader(new InputStreamReader(sock.getInputStream()));  
 /\* Used to send information from the server to client through PrintStream \*/  
 out = new PrintStream(sock.getOutputStream());  
  
  
 String inputFromWeb;  
 String inputFileName;  
 /\* Blocking Call - the server code pauses at this point and starts listening to the input from client \*/  
 inputFromWeb = in.readLine();  
 System.*out*.println("Looking up ...." + inputFromWeb);  
 if (inputFromWeb == null) {  
 System.*out*.println("Null Found");  
 } else {  
 /\* Extracting the file name to a variable \*/  
 inputFileName = inputFromWeb.substring(4, inputFromWeb.length() - 9);  
 System.*out*.println("FileName : " + inputFileName);  
 /\* Check for favicon \*/  
 if(inputFileName.equals("/favicon.ico")){  
 // System.out.println("Favicon detected and Ignored");  
 }  
 else {  
 /\* Check if the file names starts with any of the file formats \*/  
 /\* Checking for a text file \*/  
 if (inputFileName.endsWith(".txt")) {  
 System.*out*.println("Request for text file " + inputFileName);  
 /\* Setting the content type to text/plain \*/  
 String contentType = "text/plain";  
 displayOnBrowser(inputFileName, contentType, out);  
 /\* Checking for html files \*/  
 } else if (inputFileName.endsWith(".html")) {  
 System.*out*.println("Requesting a html file : " + inputFileName);  
 /\* Setting the content type to text/html \*/  
 String contentType = "text/html";  
 displayOnBrowser(inputFileName,contentType,out);  
 }  
 /\* Checking for cgi to run for WebAdd page \*/  
 else if(inputFileName.contains("cgi")){  
 System.*out*.println("Requesting Web Add File ");  
 /\* Setting the content type to text/html \*/  
 String contentType = "text/html";  
 webAdd(inputFileName,contentType,out);  
 /\* Checking for directories \*/  
 }else if (inputFileName.endsWith("/")) {  
 System.*out*.println("Request for text file " + inputFileName);  
 /\* Setting the content type to text/html \*/  
 String contentType = "text/html";  
 displayDirToBrowser(inputFileName,contentType,out);  
 } else if (!inputFileName.endsWith("/")) {  
 System.*out*.println("Request for text file " + inputFileName);  
 /\* Setting the content type to text/plain \*/  
 String contentType = "text/plain";  
 displayOnBrowser(inputFileName, contentType, out);  
 }  
 }  
 }  
 /\* Sending out the data to webserver after fetching from the methods \*/  
 System.*out*.flush();  
 /\* Closing the socket connection after the process is done \*/  
 sock.close();  
 } catch (IOException ioe) {  
 System.*out*.println(ioe);  
 }  
  
 }  
 public void displayDirToBrowser(String fileName,String contentType,PrintStream out){  
 /\* Sending the http messages to webserver \*/  
 out.print("HTTP/1.1 200 OK");  
 out.print("Content-Length: "+ 10000);  
 out.print("Content-type: "+ contentType + "\r\n\r\n");  
 /\* Converting the obtained file name to a file \*/  
 File file = new File("./"+fileName);  
 /\* Listing all the files into a file Array \*/  
 File[] fileDir = file.listFiles();  
 /\* Fixing the header and parent directory for the webserver \*/  
 out.print("<h1><center>Satya's Web Server </center></h1>");  
 out.print("<table><tr><td>[DIR]</td><td> <a href=" + "\"http://localhost:2540\"" + ">" + "./Parent Directory" + "</a><br></td></tr></table>");  
 if(fileDir!=null){  
 for (File value : fileDir) {  
 /\* Checking if the file is a directory \*/  
 if (value.isDirectory()) {  
 /\* Appending the type and url for the obtained directory \*/  
 out.print("<table><tr><td>[DIR]</td><td> <a href=\"" + "./" + value.getName() + "/\">/" + value.getName() + "/</a><br></td></tr></table>");  
 }  
 /\* Checking if the file value is a file \*/  
 else if (value.isFile()) {  
 /\* Appending the type and url for the obtained file \*/  
 out.print("<table><tr><td>[TXT]</td><td> <a href=\"" + value.getName() + "\">" + value.getName() + "</a></td><td>(" + value.length() + ")<br></td></tr></table>");  
 }  
 }  
 }  
  
 }  
  
  
 public void displayOnBrowser(String fileName,String contentType,PrintStream out) throws IOException {  
 File file = new File(fileName.substring(1,fileName.length()));  
 InputStream input = new FileInputStream(fileName.substring(1,fileName.length()));  
 /\* Sending OK Response \*/  
 out.print("HTTP/1.1 200 OK");  
 /\* Sending the Content-Length \*/  
 out.print("Content-Length: "+ file.length());  
 /\* Sending the content type \*/  
 out.print("Content-type: "+ contentType + "\r\n\r\n");  
  
 byte[] buffer = new byte[10000];  
 int bufferBytesRead = input.read(buffer);  
 out.write(buffer,0,bufferBytesRead);  
 out.flush();  
 /\* Close the Input Stream \*/  
 input.close();  
  
 }  
 /\* Method for executing WebAdd.html and returning the sum of the input values to the webserver in a text format \*/  
 public void webAdd(String fileName,String contentType,PrintStream out){  
 /\* Splitting the query with "=" because the query has three values which are Name,Num1,Num2 \*/  
 String[] qString = fileName.trim().split("=");  
 /\* Fetching the name value from first split \*/  
 String name = qString[1].split("&")[0];  
 /\* Fetching num1 value from second split and converting it to Integer \*/  
 int num1 = Integer.*parseInt*(qString[2].split("&")[0]);  
 /\* Fetching num2 value from third split and converting it to Integer \*/  
 int num2 = Integer.*parseInt*(qString[3]);  
 System.*out*.println("Print Name : "+qString[1]+" "+qString[2] +" "+qString[3]);  
 System.*out*.println("Name : "+name + " Num1 : "+num1+" Num2 : "+num2);  
 /\* Calculating the sum from num1 and num2 \*/  
 int sum = num1+num2;  
 System.*out*.println("Print Sum :" + sum);  
  
 String response = "Dear " +name +", the sum of "+num1+" and "+num2 +" is "+sum;  
 int response\_length = response.length();  
 /\* Sending response to the webserver with the message and the sum value \*/  
 out.print("HTTP/1.1 200 OK");  
 /\* Sending the Content-Length \*/  
 out.print("Content-Length "+ response\_length);  
 /\* Sending the Content Type \*/  
 out.print("Content Type "+ contentType + "\r\n\r\n");  
 /\* Sending the reply message \*/  
 out.print("<p>"+response+"</p>");  
  
 }  
}

Captured http streams:  
  
/Library/Java/JavaVirtualMachines/amazon-corretto-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=55657:/Applications/IntelliJ IDEA CE.app/Contents/bin -Dfile.encoding=UTF-8 -classpath /Users/satyayoganandaddala/Documents/Depaul\_Classes/CSC435/MiniWebserver\_Assignment/out/production/MiniWebserver\_Assignment MyListener  
Satya Yoganand's Port listener running at 2540.  
  
GET / HTTP/1.1  
Host: localhost:2540  
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:105.0) Gecko/20100101 Firefox/105.0  
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,\*/\*;q=0.8  
Accept-Language: en-US,en;q=0.5  
Accept-Encoding: gzip, deflate, br  
Referer: http://localhost:2540/Z\_directory/  
Connection: keep-alive  
Upgrade-Insecure-Requests: 1  
Sec-Fetch-Dest: document  
Sec-Fetch-Mode: navigate  
Sec-Fetch-Site: same-origin  
Sec-Fetch-User: ?1  
  
Captured My Telnet ClientHTTP streams from MyListener and MyTelnetClient :  
  
/Library/Java/JavaVirtualMachines/amazon-corretto-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=58195:/Applications/IntelliJ IDEA CE.app/Contents/bin -Dfile.encoding=UTF-8 -classpath /Users/satyayoganandaddala/Documents/Depaul\_Classes/CSC435/MiniWebserver\_Assignment/out/production/MiniWebserver\_Assignment MyTelnetClient  
Satya Yoganand's MyTelnet Client, 1.0.  
  
Using server: condor.depaul.edu, Port: 80  
Enter text to send to the server, <stop> to end: GET /elliott/dog.txt HTTP/1.1  
Enter text to send to the server, <stop> to end: Host: condor.depaul.edu:80  
Enter text to send to the server, <stop> to end:  
Enter text to send to the server, <stop> to end:  
Enter text to send to the server, <stop> to end: stop  
HTTP/1.1 400 Bad Request  
Date: Sun, 09 Oct 2022 23:25:08 GMT  
Server: Apache  
Content-Length: 226  
Connection: close  
Content-Type: text/html; charset=iso-8859-1  
  
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">  
<html><head>  
<title>400 Bad Request</title>  
</head><body>  
<h1>Bad Request</h1>  
<p>Your browser sent a request that this server could not understand.<br />  
</p>  
</body></html>

/Library/Java/JavaVirtualMachines/amazon-corretto-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=55886:/Applications/IntelliJ IDEA CE.app/Contents/bin -Dfile.encoding=UTF-8 -classpath /Users/satyayoganandaddala/Documents/Depaul\_Classes/CSC435/MiniWebserver\_Assignment/out/production/MiniWebserver\_Assignment MiniWebserver  
Satya Yoganand's Mini Webserver 1.8 starting up,listening at port 2540.  
  
Looking up ....GET / HTTP/1.1  
FileName : /  
Request for text file /  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
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Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....null  
Null Found  
Looking up ....GET /Z\_directory/ HTTP/1.1  
FileName : /Z\_directory/  
Request for text file /Z\_directory/  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
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Looking up ....GET / HTTP/1.1  
FileName : /  
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Favicon detected and Ignored  
Looking up ....GET /dog.txt HTTP/1.1  
FileName : /dog.txt  
Request for text file /dog.txt  
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FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /cat.html HTTP/1.1  
FileName : /cat.html  
Requesting a html file : /cat.html  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
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FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....null  
Null Found  
Looking up ....GET /out/ HTTP/1.1  
FileName : /out/  
Request for text file /out/  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
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Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /out/production/ HTTP/1.1  
FileName : /out/production/  
Request for text file /out/production/  
Looking up ....GET /favicon.ico HTTP/1.1  
FileName : /favicon.ico  
Favicon detected and Ignored  
Looking up ....GET /favicon.ico HTTP/1.1  
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Favicon detected and Ignored  
Looking up ....GET / HTTP/1.1  
FileName : /  
Request for text file /  
Looking up ....GET /favicon.ico HTTP/1.1  
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Favicon detected and Ignored  
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