Exercise 7: HTTP   web client program to download the webpage TCP

AIM: Implement a HTTP web client program to download the webpage using C socket programming.

Algorithm:

1. Read the name of the server as command line argument

   (Ex: www.ssn.edu.in/wp-content/uploads/2021/02/NIRF-2021-SSNCE-ENGG.pdf)

2. Get the address of the server using gethostbyname() that returns the pointer to network data structure for given host

3. Create a TCP socket using socket()

4. Connect to remote server

5. Send request using a GET /path/filename HTTP/1.1\r\n   request using either send() or write().

   (GET /wp-content/uploads/2021/02/NIRF-2021-SSNCE-ENGG.pdf HTTP/1.1\r\nHost:

   www.ssn.edu.in \r\n\r\n)

6. Receive the response using either recv() or read().

7. Parse the response to find out if the request succeeded and what format the file data is being sent as.

8. Receive the file data, if present, using either recv() or read() and write the downloaded page into file under a different name in a local folder.

9. Close the socket and the file.

Sample Output:
 >> **gcc webpagedownload.c -o download**
>>**./download www.ssn.edu.in/wp-content/uploads/2021/02/NIRF-2021-SSNCE-ENGG.pdf**
Enter the new file name: output.doc
Downloaded file saved under output.doc