Lab 8: TCP Client to Download File

Write a TCP client to download and locally save a file.

1. The client, as a command-line argument, accepts the URL of the file. The URL can be HTTP or HTTPS-based. (2 marks)
2. If the URL does not exist or unreachable, the client prints an error and exits. (2 marks)
3. After connecting to the server, the client sends a GET request to the server to get the file. (2 marks)
4. The client downloads the whole file and saves it to the local folder with the same file name as mentioned in the URL. (6 marks)
5. If a file with the same name exists, the old file is overwritten. (1 mark)
6. The client exits after downloading the file. (1 mark)
Notes:
1. All the students will upload C code along with a PDF file containing the screenshots of the executed program on Google classroom
2. Submit a README file giving instruction for compilation and execution
3. You will get zero marks if the PDF or the README is missing
4. Please submit a single zip file named <Name>_<ID_number>. Make sure to turn in your submissions on time.