

Program

```
// Configure the following services in the network- FTP server, Web
server, File server - Implementation and Demonstration.

#include <stdio.h>
#include <string.h>
#include <errno.h>
#include <sys/socket.h>
#include<netinet/in.h>
#include<time.h>
#define PORT_FTP      21          /* FTP connection port */
#define SERVER_ADDR   "192.168.1.6" /* localhost */
#define MAXBUF        1024

int main()
{   int sockfd;
    struct sockaddr_in dest;
    char buffer[MAXBUF];

    /*---Open socket for streaming---*/
    if ( (sockfd = socket(AF_INET, SOCK_STREAM, 0)) < 0 )
    {
        perror("Socket");
        exit(errno);
    }

    /*---Initialize server address/port struct---*/
    bzero(&dest, sizeof(dest));
    dest.sin_family = AF_INET;
    dest.sin_port = htons(PORT_FTP);
    if ( inet_aton(SERVER_ADDR, &dest.sin_addr.s_addr) == 0 )
    {
        perror(SERVER_ADDR);
        exit(errno);
    }

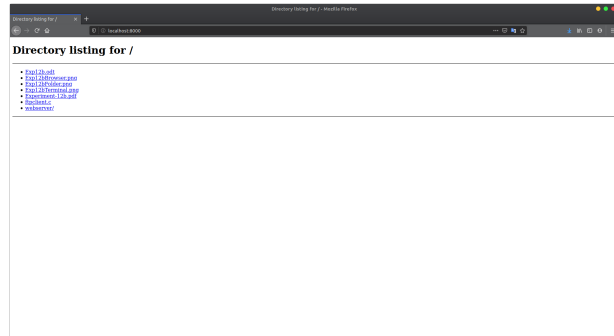
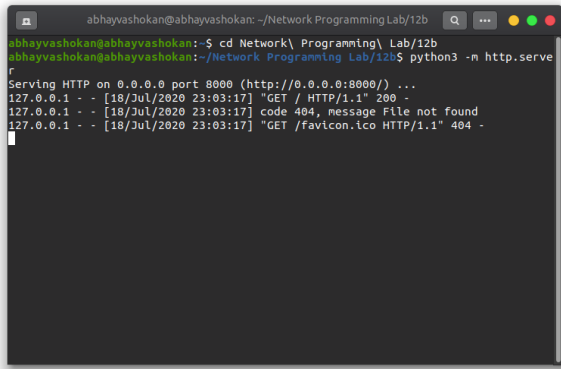
    /*---Connect to server---*/
    if ( connect(sockfd, (struct sockaddr*)&dest, sizeof(dest)) != 0 )
    {
        perror("Connect ");
        exit(errno);
    }

    /*---Get "Hello?"---*/
    bzero(buffer, MAXBUF);
    recv(sockfd, buffer, sizeof(buffer), 0);
    printf("%s", buffer);

    /*---Clean up---*/
    close(sockfd);
}
```

Output

Screenshot



Output

```
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
127.0.0.1 - - [18/Jul/2020 23:07:23] "GET / HTTP/1.1" 200 -
```

ReadMe

1. Run the `ftpclient.c` file using `gcc ftpclient.c && ./a.out`
2. Run the server using the command `python3 -m http.server`
3. Navigate to the address `localhost:8000` to get the directory listed.