EXPERIMENT 12.B

Aim:To implement FTP

Date: 30-03-20

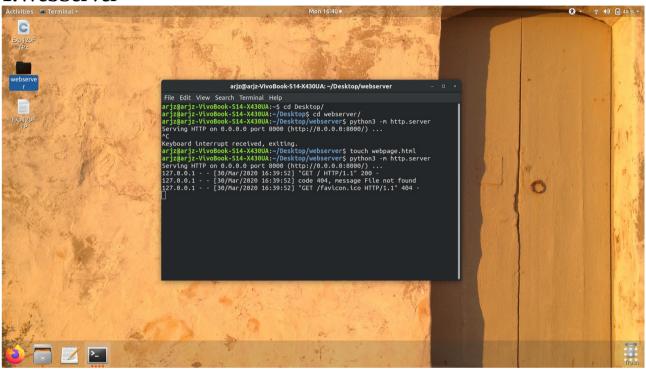
The Program

```
1. FTPClient
#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);
return 0;
}
```

Screenshot

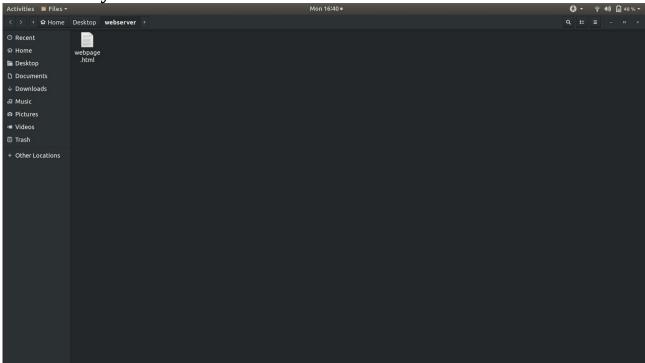
1.WebServer



2.Browser



3. Directory



Output File

1.WebServer

python3 -m http.server
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000) . . . 127.0.0.1 - - [30/Mar/2020 16:39:52] "GET / HTTP/ 1.1" 200 - 127.0.0.1 - - [30/Mar/2020 16:39:52] code 404, message File not found 127.0.0.1 - - [30/Mar/2020 16:39:52] "GET favicon.ico HTTP1.1" 404 -

2.FileServer

ftp <ip address> eg: ip 192.168.43.57 Connected to 192.168.43.57 220 (vsFTPd 3.0.3)

3.FtpClient

./ftpclient 220 (vsFTPd 3.0.3)