DEPARTMENT OF INFORMATION TECHNOLOGY

COMPUTER NETWORKING LAB

LAB 8: 03/01/2023

Name:- Chikkeri Chinmaya
Roll Number:- 211IT017

File transfer client program:fileclient.cc

```
#include<stdio.h>
#include<unistd.h>
#include<string.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<sys/types.h>
#include<arpa/inet.h>
#define SERV_PORT 5576
int main()
{
int i,j;
ssize_t n;
char filename[80],recvline[80];
struct sockaddr_in servaddr;
int sockfd;
sockfd=socket(AF_INET,SOCK_STREAM,0);
bzero(&servaddr,sizeof(servaddr));
servaddr.sin_family=AF_INET;
servaddr.sin_port=htons(SERV_PORT);
servaddr.sin_addr.s_addr=inet_addr("127.0.0.1");
connect(sockfd,(struct sockaddr*)&servaddr,sizeof(servaddr));

printf("enter the file name");
scanf("%s",filename);
write(sockfd,filename,sizeof(filename));
printf("\n data from server: \n");
int temp ,sz;
read(sockfd,&temp,sizeof(temp));
sz = ntohl(temp);
printf("%d\n",sz);
// while(read(sockfd,recvline,80)!=0)
// {
// fputs(recvline,stdout);
// }
close(sockfd);

}
```

Server for file transfer:fileserver.cc

```
#include<stdio.h>
#include<unistd.h>
#include<string.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<sys/types.h>
#define SERV_PORT 5576
int main(int argc,char **argv)
{
int i,j;
ssize_t n;
FILE *fp;
char s[80],f[80];
struct sockaddr_in servaddr,cliaddr;
int listenfd,connfd,clilen;
listenfd=socket(AF_INET,SOCK_STREAM,0);
bzero(&servaddr,sizeof(servaddr));
servaddr.sin_family=AF_INET;
servaddr.sin_port=htons(SERV_PORT);
bind(listenfd,(struct sockaddr *)&servaddr,sizeof(servaddr));
listen(listenfd,1);
clilen=sizeof(cliaddr);
connfd=accept(listenfd,(struct sockaddr*)&cliaddr,&clilen);
printf("\n clinet connected");
read(connfd,f,80);
fp=fopen(f,"r");
printf("\n name of the file: %s \n",f);
int k = 0;
while(fgets(s,2,fp)!=NULL)
{
   k++;
printf("%s",s);
}
int sz = htonl(k);
printf("%d\n",k);
write(connfd,&sz,sizeof(sz));
close(listenfd);
fclose(fp);
return 0;
}
```

INPUT TEXT FILE:-

This is CNN Lab 8 Testing file.

OUTPUT:-