PROGRAM CODE

CLIENT:

```
#include<stdio.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<stdlib.h>
#include<string.h>
#include<unistd.h>
#include<arpa/inet.h>
#include<sys/types.h>
#include <fcntl.h>
int main(int argc,char **argv)
struct sockaddr in server;
char buff[1024];
char str[1000];
int sfd=socket(AF INET, SOCK STREAM, 0);
if(sfd<0)
 perror("Cannot create socket");
  exit(1);
bzero(&server, sizeof(server));
server.sin family=AF INET;
server.sin port=htons(3000);
server.sin addr.s addr=inet addr(argv[1]);
int cn=connect(sfd,(struct
sockaddr*) &server, sizeof (server));
if(cn<0)
perror("Connect error");
exit(1);
}
else
printf("Connected to the server..\n");
printf("\nEnter the path of the file: ");
gets(buff);
write(sfd,buff,sizeof(buff));
printf("\nFile transferred");
read(sfd,buff,sizeof(buff));
printf("\nEnter the path in which the file is to be saved:
");
scanf("%s",str);
int fd=creat(str, O RDWR);
```

```
write(fd, buff, strlen(buff));
close(sfd);
close(fd);
return 0;
SERVER:
#include<stdio.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<stdlib.h>
#include<string.h>
#include<unistd.h>
#include<arpa/inet.h>
#include<sys/stat.h>
#include <fcntl.h>
int main()
struct sockaddr in server, client;
char fname[300];
char buff[1024];
char str[100] = "\0", ch[2] = "\0";
int newfd1,i,j;
int sfd=socket(AF INET,SOCK STREAM,0);
if(sfd<0)
 perror("Cannot create socket");
  exit(1);
bzero(&server, sizeof(server));
server.sin family=AF INET;
server.sin port=htons(3000);
server.sin addr.s addr=htonl(INADDR ANY);
int bs=bind(sfd,(struct sockaddr*)&server,sizeof(server));
if(bs<0)
perror("Bind error");
exit(1);
int ls=listen(sfd,2);
if(ls<0)
perror("listen error");
exit(1);
int clientlen=sizeof(client);
newfd1=accept(sfd,(struct sockaddr*)&client,&clientlen);
```

```
if(newfd1<0)
 perror("accept error");
 exit(0);
printf("\nWaiting for client...");
read(newfd1, fname, sizeof(fname));
printf("\nFile to be transferred is : %s\n", fname);
int fd=open(fname,O RDONLY);
if(fd==-1) printf("\nNo such file exists\n");
int n=read(fd,ch,1);
while (n!=0)
 strcat(str,ch);
 n=read(fd, ch, 1);
write(newfd1, str, sizeof(str));
printf("\nFile transferred\n");
close(newfd1);
close(sfd);
close(fd);
return 0;
}
OUTPUT:
csec86@CCL-06:~/nwlab$ ./fs
Waiting for client...
File to be transferred is : /home/csec86/sample.txt
File transferred
csec86@CCL-06:~/nwlab$
csec86@CCL-06:~/nwlab$ cat new.txt
csec86@CCL-06:~/nwlab$ ./fc 127.0.0.1
Connected to the server..
Enter the path of the file: /home/csec86/sample.txt
File transferred
Enter the path in which the file is to be saved: /home/csec86/nwlab/new.txt
csec86@CCL-06:~/nwlab$ cat new.txt
hi
hello
how are you
csec86@CCL-06:~/nwlab$
```