

(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai) (Religious Jain Minority)

Department of Computer Engineering

(NBA Accredited)
Academic Year 2022-23

Roll Number: 51

Name: Mit Jain

Lab number: 8

Programs with respective output (screenshot):

server.c

```
#include<stdio.h>
#include<unistd.h>
#include<string.h>
#include<sys/socket.h>
#include<stdlib.h>
#include<netinet/in.h>
#include<sys/types.h>
#define MAXLINE 20
#define SERV_PORT 5777
main(int argc,char *argv)
{
int i,j;
ssize_t n;
char line[MAXLINE],revline[MAXLINE];
int listenfd,connfd,clilen;
struct sockaddr_in servaddr,cliaddr;
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);
for(;;)
{
clilen=sizeof(cliaddr);
connfd=accept(listenfd,(struct sockaddr*)&cliaddr,&clilen);
printf("CONNECT TO CLIENT\n");
while(1)
{ if((n=read(connfd,line,MAXLINE))==0)
break;
line[n-1]='\0';
j=0;
for(i=n-2;i>=0;i--)
revline[j++]=line[i];
revline[j]='\0';
write(connfd,revline,n);}
}
}
          apsic@apsic-np-pro-rower-zoo-do-pcr-peskcop-pc: ~/pocuiii...
     apsit@apsit-HP-Pro-Tower-280-G9-PCI-D... ×
                                                apsit@apsit-HP-Pro-Tower-280-G9-PCI-D...
  apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Documents/MIT_51$ gcc server.c
  server.c:10:1: warning: return type defaults to 'int' [-Wimplicit-int]
      10 | main(int argc,char *argv)
  apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Documents/MIT_51$ ./a.out
  CONNECT TO CLIENT
```

client.c

```
#include<stdio.h>
#include<unistd.h>
#include<string.h>
#include<sys/socket.h>
#include<stdlib.h>
#include<netinet/in.h>
#include<sys/types.h>
#define MAXLINE 20
#define SERV_PORT 5777
main(int argc,char *argv)
{
```

```
char sendline[MAXLINE],revline[MAXLINE]; int sockfd;
struct sockaddr_in servaddr; sockfd=socket(AF_INET,SOCK_STREAM,0);
bzero(&servaddr,sizeof(servaddr));
servaddr.sin_family=AF_INET;servaddr.sin_port=ntohs(SERV_PORT);
connect(sockfd,(struct sockaddr*)&servaddr,sizeof(servaddr));
printf("Enter the data to be sent\n");
while(fgets(sendline,MAXLINE,stdin)!=NULL)
{
write(sockfd,sendline,strlen(sendline));
printf("\n Line sent");
read(sockfd,revline,MAXLINE);
printf("\nReverse of the given sentence is %s",revline);
printf("\n");
}
exit(0); }
```