1 . server.c

```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--)
```

```c
        revline[j++]=line[i];
        revline[j]='\0';
        write(connfd,revline,n);}
    }

}
```

2. client.c

```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); }
```

```
nidhi_vanjare@Nidhi:~$ cd Desktop/
nidhi_vanjare@Nidhi:~/Desktop$ gcc server.c
server.c:10:1: warning: return type defaults to 'int' [-Wimplicit-int]
   10 | main(int argc,char *argv)
      | ^~~~
nidhi_vanjare@Nidhi:~/Desktop$ ./a.out
CONNECT TO CLIENT
```

```
nidhi_vanjare@Nidhi:~$ cd Desktop/
nidhi_vanjare@Nidhi:~/Desktop$ gcc client.c
client.c:10:1: warning: return type defaults to 'int' [-Wimplicit-int]
   10 | main(int argc,char *argv)
      | ^~~~
nidhi_vanjare@Nidhi:~/Desktop$ ./a.out
Enter the data to be sent
Nidhi

 Line sent
Reverse of the given sentence is ihdiN
```