```
//B20CS1130
//Experiment 6
//UDP server
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<netinet/in.h>
#include<sys/socket.h>
#include<sys/types.h>
#include<unistd.h>
void main(){
       printf("Server side\n");
       char buffer[50];
       int sockfd;
       struct sockaddr_in addr;
       addr.sin_family=AF_INET;
       addr.sin addr.s addr=INADDR ANY;
       addr.sin port=3008;
       int s=sizeof(struct sockaddr_in);
       sockfd=socket(AF_INET,SOCK_DGRAM,0);
       bind(sockfd,(struct sockaddr*)&addr,sizeof(addr));
       listen(sockfd,5);
       do{
              printf("Connection established\n");
              printf("Receiving message from client\n");
              recvfrom(sockfd,buffer,sizeof(buffer),0,(struct sockaddr*)&addr,&s);
              printf("%s",buffer);
              printf("\nEnter message:");
              scanf("%s",buffer);
              sendto(sockfd,buffer,sizeof(buffer),0,(struct sockaddr*)&addr,s);
       }while(strcmp(buffer,"stop")!=0);
       close(sockfd);
}
OUTPUT
s6cs130@comp62:~$ gcc 6.udpserver.c
s6cs130@comp62:~$ ./a.out
```

```
Server side
Connection established
Receiving message from client
hi
Enter message:hello
Connection established
Receiving message from client
hi
Enter message:stop
*/
//Experiment 6
//UDP client
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<netinet/in.h>
#include<sys/socket.h>
#include<sys/types.h>
#include<unistd.h>
void main(){
       printf("Client Side\n");
       char buffer[50];
       int sockfd;
       sockfd=socket(AF_INET,SOCK_DGRAM,0);
       struct sockaddr_in addr;
       addr.sin_family=AF_INET;
       addr.sin_addr.s_addr=INADDR_ANY;
       addr.sin_port=3008;
       int s=sizeof(struct sockaddr_in);
       connect(sockfd,(struct sockaddr*)&addr,sizeof(addr));
       do{
              printf("Send message to server: ");
              scanf("%s",buffer);
              sendto(sockfd,buffer,sizeof(buffer),0,(struct sockaddr*)&addr,s);
              recvfrom(sockfd,buffer,sizeof(buffer),0,(struct sockaddr*)&addr,(&s));
              printf("Received from server: %s\n",buffer);
```

```
}while(strcmp(buffer,"stop")!=0);
    close(sockfd);
}

/*
OUTPUT
s6cs130@comp62:~$ gcc 6.udpclient.c
s6cs130@comp62:~$ ./a.out
Client Side
Send message to server: hi
Received from server: hello
Send message to server: hi
Received form server: stop
*/
```