## Aim

A client using a wireless device wants to communicate to the server located in an unknown location. Demonstrate the concept with relevant protocol communication.

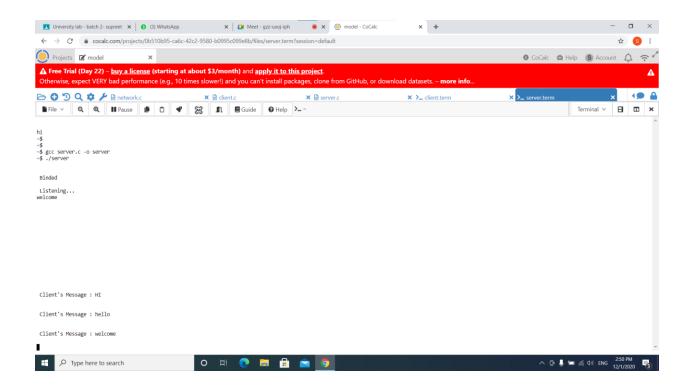
## Procedure

- 1) Firstly create a extension file in cocalc by name netwok.c.
- 2)Then create two new files by name server.c and client.c
- 3) Then in next step create two new term files by naming client.term and server.term.
- 4)Then type the code on client and server side then run the output in the server.

## Server code:-

#include<sys/types.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<unistd.h>
#include<netdb.h>

```
#include < stdio.h >
#include < string.h >
#include<arpa/inet.h>
#define MAXLINE 1024
int main(int argc,char **argv)
int sockfd;
int n;
socklen_t len;
char msg[1024];
struct sockaddr_in servaddr,cliaddr;
sockfd=socket(AF_INET,SOCK_DGRAM,0);
bzero(&servaddr,sizeof(servaddr));
servaddr.sin_family=AF_INET;
servaddr.sin_addr.s_addr=INADDR_ANY;
servaddr.sin_port=htons(5035);
printf("\n\n Binded");
bind(sockfd,(struct sockaddr*)&servaddr,sizeof(servaddr));
printf("\n\n Listening...");
for(;;)
   printf("\n ");
   len=sizeof(cliaddr);
   n=recvfrom(sockfd,msg,MAXLINE,0,(struct sockaddr*)&cliaddr,&len);
   printf("\n Client's Message : %s\n",msg);
   if(n<6)
     perror("send error");
   sendto(sockfd,msg,n,0,(struct sockaddr*)&cliaddr,len);
return 0;
```



## Client code :-

```
#include<sys/types.h>
#include<sys/socket.h>
#include < netinet/in.h >
#include < string.h >
#include<arpa/inet.h>
#include < string.h >
#include < arpa/inet.h >
#include < stdio.h >
#define MAXLINE 1024
int main(int argc,char* argv[])
int sockfd;
int n;
socklen_t len;
char sendline[1024],recvline[1024];
struct sockaddr_in servaddr;
strcpy(sendline,"");
printf("\n Enter the message : ");
scanf("%s",sendline);
```

```
sockfd=socket(AF_INET,SOCK_DGRAM,0);
bzero(&servaddr,sizeof(servaddr));
servaddr.sin_family=AF_INET;
servaddr.sin_addr.s_addr=inet_addr("127.0.0.1");
servaddr.sin_port=htons(5035);
connect(sockfd,(struct sockaddr*)&servaddr,sizeof(servaddr));
len=sizeof(servaddr);
sendto(sockfd,sendline,MAXLINE,0,(struct sockaddr*)&servaddr,len);
n=recvfrom(sockfd,recvline,MAXLINE,0,NULL,NULL);
recvline[n]=0;
printf("\n Server's Echo: %s\n\n",recvline);
return 0;
}
```

