# **Experiment 3:**

#### **Client Code:**

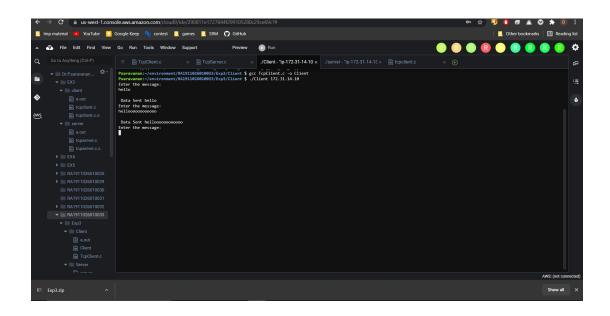
```
#include <arpa/inet.h>
#include <netdb.h>
#include <netinet/in.h>
#include <stdio.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <unistd.h>
int main(int argc, char *argv[])
   int cd, sd, ad;
   char buff[1024];
   struct sockaddr_in cliaddr, servaddr;
   h = gethostbyname(argv[1]);
   bzero(&servaddr, sizeof(servaddr));
   servaddr.sin_family = AF_INET;
   memcpy((char *)&servaddr.sin_addr.s_addr, h->h_addr_list[0], h->h_length);
   servaddr.sin_port = htons(2002);
   sd = socket(AF_INET, SOCK_STREAM, 0);
   cd = connect(sd, (struct sockaddr *)&servaddr, sizeof(servaddr));
       printf("Enter the message: \n");
       fgets(buff, 100, stdin);
       send(sd, buff, sizeof(buff) + 1, 0);
       printf("\n Data Sent ");
       printf("%s", buff);
```

#### **Server Code:**

```
#include <arpa/inet.h>
#include <netdb.h>
#include <netinet/in.h>
#include <stdio.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <unistd.h>
int main(int argc, char *argv[])
   int bd, sd, ad;
   char buff[1024];
   struct sockaddr_in cliaddr, servaddr;
   socklen_t clilen;
   clilen = sizeof(cliaddr);
   bzero(&servaddr, sizeof(servaddr));
   servaddr.sin_family = AF_INET;
   servaddr.sin_addr.s_addr = htonl(INADDR_ANY);
   servaddr.sin_port = htons(2002);
   sd = socket(AF_INET, SOCK_STREAM, 0);
   bd = bind(sd, (struct sockaddr *)&servaddr, sizeof(servaddr));
   listen(sd, 5);
   printf("server is running");
   ad = accept(sd, (struct sockaddr *)&cliaddr, &clilen);
       bzero(&buff, sizeof(buff));
       recv(ad, buff, sizeof(buff), 0);
       printf("The client message is: %s \n", buff);
```

### **Output:**

## **Client Output:**



### **Server Output:**

```
## Comparison | Workship | Comparison | Comp
```