Exercise 5

Codes:

Server:

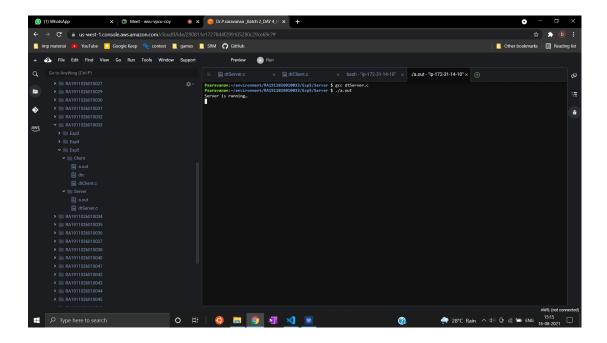
```
#include <netdb.h>
#include <netinet/in.h>
#include <stdio.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <time.h>
#include <unistd.h>
int main(int argc, char *argv[])
   int sd, ad;
   char buff[1024];
   struct sockaddr_in servaddr, cliaddr;
   time_t t1;
   bzero(&servaddr, sizeof(servaddr));
   servaddr.sin_family = AF_INET;
   servaddr.sin_addr.s_addr = htonl(INADDR_ANY);
   servaddr.sin_port = htons(1507);
   bind(sd, (struct sockaddr *)&servaddr, sizeof(servaddr));
   listen(sd, 5);
   printf("Server is running...\n");
   ad = accept(sd, (struct sockaddr *)NULL, NULL);
   while (1)
       bzero(&buff, sizeof(buff));
       t1 = time(NULL);
       snprintf(buff, sizeof(buff), "%24s\r\n", ctime(&t1));
       send(ad, buff, sizeof(buff), 0);
```

Client:

```
#include <netdb.h>
#include <netinet/in.h>
#include <stdio.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <time.h>
#include <unistd.h>
int main(int argc, char *argv[])
   int 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(1507);
   sd = socket(AF_INET, SOCK_STREAM, 0);
   connect(sd, (struct sockaddr *)&servaddr, sizeof(servaddr));
   recv(sd, buff, sizeof(buff), 0);
   printf("Day time of server is: %s\n", buff);
```

Output:

Server:



Client:

