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Server:

```
#include<stdio.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<unistd.h>
#include<time.h>
//port value and the max size for buffer
#define PORT 9002 //the port users will be connecting to
#define BACKLOG 10 //how many pending connections queue will hold
int main(){
 time t currentTime ;
 time(&currentTime);
 //*************
 int countClient = 0;
 int socket descriptor = socket(AF INET, SOCK STREAM, 0);
 struct sockaddr_in serverAddress;
 serverAddress.sin_family = AF_INET;
  serverAddress.sin_addr.s_addr=INADDR_ANY;
  serverAddress.sin port=htons(PORT);
//binding address
bind(socket descriptor,(struct sockaddr*)&serverAddress,sizeof(serverAddress));
//listening to the queue
 listen(socket descriptor, BACKLOG);
 printf("\nServer Started ...");
while(1){
  countClient++;
   printf("\n");
   int client socket = accept(socket descriptor, NULL, NULL);
   // char *string = asctime(timeinfo);
   printf("\nClient %d has requested for time at %s", countClient, ctime(&currentTime));
   //sending time to the client side
   // ctime(&time from pc)
   send(client socket,ctime(&currentTime), 30, 0);
 return 0;
Client:
#include <sys/socket.h>
```

```
#include <netinet/in.h>
#include "string.h"
```

```
#define PORT 9002 //the port users will be connecting to
#define MAXLINE 30 //for buffer size
int main(){
  int socket descriptor = socket(AF INET, SOCK STREAM, 0);
  char serverResponse[MAXLINE];
  struct sockaddr in serverAddress;
  serverAddress.sin family = AF INET;
  serverAddress.sin addr.s addr = INADDR ANY;
  serverAddress.sin port = htons(PORT);
connect(socket descriptor, (struct sockaddr *)&serverAddress, sizeof(serverAddress));
recv(socket_descriptor, serverResponse, MAXLINE-1, 0);
  printf("\nTIME FROM SERVER %s\n", serverResponse);
  return 0;
OUTPUT:-
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                                                               × /server - "ip-172-31-6-14 × bash - "ip-172-31-6-144" × +
       > RA1911027010071
                         RA1911027010068:~/environment/RA1911027010078/exp5-timeserver $ cc -o server server78.c RA1911027010068:~/environment/RA1911027010078/exp5-timeserver $ ./server
                         Server Started ...
                         Client 1 has requested for time at Mon Sep 13 06:36:27 2021
                         Client 2 has requested for time at Mon Sep 13 06:36:27 2021
                         Client 3 has requested for time at Mon Sep 13 06:36:27 2021
```

client78.c server

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