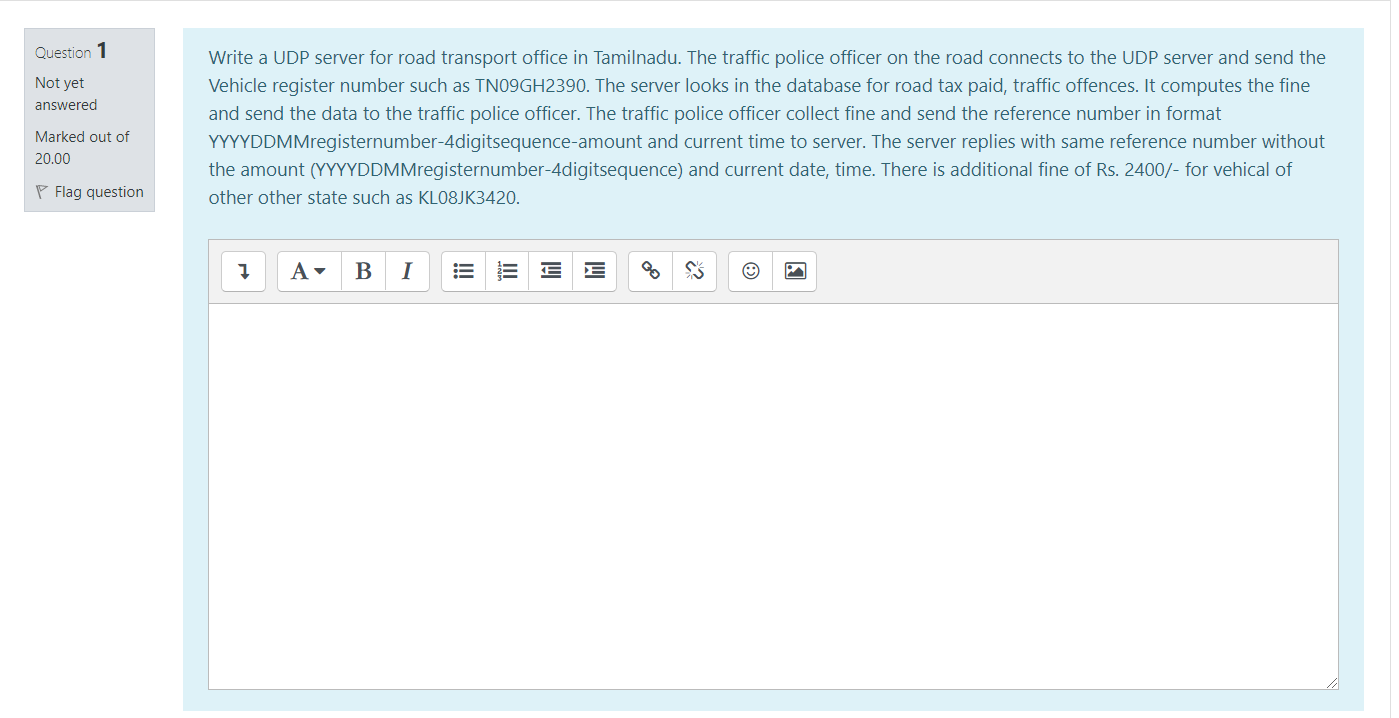
ARYAMAN MISHRA

19BCE1027

1)



Server.c

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <string.h>

#include <time.h>

#include <sys/types.h>

#include <sys/socket.h>

#include <arpa/inet.h>

#include <netinet/in.h>

#define PORT 8080

#define MAXLINE 1024

// Driver code

int main() {

int sockfd,fine;

char buffer[MAXLINE];

struct sockaddr\_in servaddr, cliaddr;

// Creating socket file descriptor

if ( (sockfd = socket(AF\_INET, SOCK\_DGRAM, 0)) < 0 ) {

perror("socket creation failed");

exit(EXIT\_FAILURE);

}

memset(&servaddr, 0, sizeof(servaddr));

memset(&cliaddr, 0, sizeof(cliaddr));

// Filling server information

servaddr.sin\_family = AF\_INET; // IPv4

servaddr.sin\_addr.s\_addr = INADDR\_ANY;

servaddr.sin\_port = htons(PORT);

// Bind the socket with the server address

if ( bind(sockfd, (const struct sockaddr \*)&servaddr,

sizeof(servaddr)) < 0 )

{

perror("bind failed");

exit(EXIT\_FAILURE);

}

char \*hello = "20201106TN09GH2390-2390-200";

int len, n;

time\_t current\_time;

len = sizeof(cliaddr); //len is value/resuslt

n = recvfrom(sockfd, (char \*)buffer, MAXLINE,

MSG\_WAITALL, ( struct sockaddr \*) &cliaddr,

&len);

buffer[n] = '\0';

if(buffer[1]!='T' && buffer[2]!='N')

fine=fine+2400;

printf("Client : %s\n", buffer);

sendto(sockfd, (const char \*)hello, strlen(hello),

MSG\_CONFIRM, (const struct sockaddr \*) &cliaddr,

len);

printf

printf("Current time: %s", ctime(&current\_time));

printf("Reference sent.\n");

return 0;

}

Client.c

// Client side implementation of UDP client-server model

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <string.h>

#include <sys/types.h>

#include <sys/socket.h>

#include <arpa/inet.h>

#include <netinet/in.h>

#define PORT 8080

#define MAXLINE 1024

// Driver code

int main() {

int sockfd;

char buffer[MAXLINE];

char \*hello = "TN09GH2390";

struct sockaddr\_in servaddr;

// Creating socket file descriptor

if ( (sockfd = socket(AF\_INET, SOCK\_DGRAM, 0)) < 0 ) {

perror("socket creation failed");

exit(EXIT\_FAILURE);

}

memset(&servaddr, 0, sizeof(servaddr));

// Filling server information

servaddr.sin\_family = AF\_INET;

servaddr.sin\_port = htons(PORT);

servaddr.sin\_addr.s\_addr = INADDR\_ANY;

int n, len;

sendto(sockfd, (const char \*)hello, strlen(hello),

MSG\_CONFIRM, (const struct sockaddr \*) &servaddr,

sizeof(servaddr));

printf("License Sent .\n");

n = recvfrom(sockfd, (char \*)buffer, MAXLINE,

MSG\_WAITALL, (struct sockaddr \*) &servaddr,

&len);

buffer[n] = '\0';

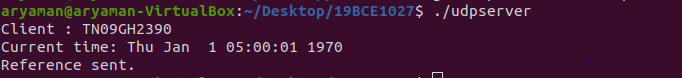
printf("Server : %s\n", buffer);

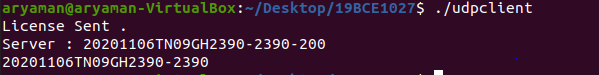
printf("20201106TN09GH2390-2390\n");

close(sockfd);

return 0;

}





2)

