## 26. Implementation of date and time display from client to server using TCP sockets in java/C.

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <winsock2.h>
#include <ws2tcpip.h>
#pragma comment(lib, "ws2_32.lib") // Link Winsock library
#define PORT 8080
#define BUFFER_SIZE 1024
int main() {
  WSADATA wsa;
  SOCKET sock;
  struct sockaddr_in server_address;
  char buffer[BUFFER_SIZE] = {0};
  // Initialize Winsock
  if (WSAStartup(MAKEWORD(2, 2), &wsa) != 0) {
    printf("WSAStartup failed. Error Code: %d\n", WSAGetLastError());
    return 1;
  }
  // Create socket
  if ((sock = socket(AF_INET, SOCK_STREAM, 0)) == INVALID_SOCKET) {
    printf("Socket creation error. Error Code: %d\n", WSAGetLastError());
    return 1;
  }
  // Configure server address
  server_address.sin_family = AF_INET;
  server_address.sin_port = htons(PORT);
  server_address.sin_addr.s_addr = inet_addr("127.0.0.1");
  // Connect to server
  if (connect(sock, (struct sockaddr*)&server address, sizeof(server address)) == SOCKET ERROR) {
    printf("Connection failed. Error Code: %d\n", WSAGetLastError());
    return 1;
  }
  // Receive data from server
  recv(sock, buffer, BUFFER SIZE, 0);
  printf("Server Response: %s\n", buffer);
  closesocket(sock);
  WSACleanup();
```

```
return 0;
}
```

```
Server is listening on port 8080...
Client connected...
Date and time sent to client.

Client.

Client connected...

Process exited after 0.2292 seconds with return value 0

Press any key to continue . . .
```