```
1: Sample Server-Side Code in TCP Sockets Programming:
 4:
5: ... ...
 6: #include <sys/types.h>
7: #include <sys/socket.h>
 8: ... ...
9:
10: ... ...
11: struct sockaddr_in serveraddr, clientaddr;
12: ...
13: int sersock, consock;
14: int len = sizeof(clientaddr);
15: char IP_ADDRESS = "129.186.23.166";
16: ... ...
17:
18: ... ...
19:
20: if ( (sersock = socket(PF_INET, SOCK_STREAM, 0)) < 0 ){</pre>
21: perror("socket() error:\n");
22:
       exit(1);
23: }
24:
25: ... ...
26: serveraddr.sin family = PF INET;
27: serveraddr.sin_port = htons(80);
28: serveraddr.sin addr.s addr = inet addr(IP ADDRESS);
29: %% OR: serveraddr.sin_addr.s_addr = htonl(INADDR_ANY);
30: ... ...
31:
32: ... ...
33: bind(sersock, (sockaddr *) &serveraddr, sizeof(serveraddr));
34: listen(sersock, 10);
35: ... ...
36:
37: ... ...
38: while(1){
39:
40:
       consock = accept(sersock, (sockaddr *) &clientaddr, &len);
41:
42:
       %% communication between server and client starts here
43:
44:
       read(consock, ..., ...);
45:
46:
      write(consock, ..., ...);
47:
48:
       %% communication between server and client ends here
49:
50:
       close(consock);
51: }
52: close(sersock);
53: ... ...
54:
55:
56:
```

```
57: Sample Client-Side Code in TCP Sockets Programming:
60:
61: ... ...
 62: #include <sys/types.h>
63: #include <sys/socket.h>
64: ... ...
65:
67: struct sockaddr_in remoteaddr;
68: ... ...
69: int clisock;
70: char SERVER_IP = "129.186.23.166";
71: ... ...
72:
73: ... ...
74:
75: if ( (clisock = socket(PF_INET, SOCK_STREAM, 0)) < 0 ){
76:
      perror("socket() error:\n");
77:
       exit(1);
78: }
79:
80: ... ...
81: remoteaddr.sin_family = PF_INET;
 82: remoteaddr.sin port = htons(80);
83: remoteaddr.sin_addr.s_addr = inet_addr(SERVER_IP);
84: ... ...
85:
86: ... ...
87: connect(clisock, (sockaddr *) &remoteaddr, sizeof(remoteaddr));
88: ... ...
89:
90: %% communication between client and server starts here
91: ... ...
92: read(clisock, ..., ...);
93: ... ...
94: write(clisock, ..., ...);
95: ... ...
96: %% communication between client and server ends here
98: close(clisock);
99: ... ...
100:
```