```
/* A simple server in the internet domain using TCP
 2
        The port number is passed as an argument */
 3
    #include <stdio.h>
 4
    #include <stdlib.h>
    #include <string.h>
    #include <unistd.h>
    #include <sys/types.h>
    #include <sys/socket.h>
 8
 9
    #include <netinet/in.h>
10
    void error(const char *msg)
11
12
13
         perror(msg);
14
         exit(1);
    }
15
16
    int main(int argc, char *argv[])
17
18
19
          int sockfd, newsockfd, portno;
20
          socklen_t clilen;
          char buffer[255];
21
          struct sockaddr_in serv_addr, cli_addr;
22
23
          int n;
          if (argc < 2) {
24
              fprintf(stderr, "ERROR, no port provided\n");
25
              exit(1);
26
27
          }
          sockfd = socket(AF INET, SOCK STREAM, 0);
28
          if (sockfd < 0)
29
             error("ERROR opening socket");
30
          bzero((char *) &serv addr, sizeof(serv addr));
31
32
          portno = atoi(argv[1]);
          serv_addr.sin_family = AF_INET;
33
          serv_addr.sin_addr.s_addr = INADDR_ANY;
34
35
          serv_addr.sin_port = htons(portno);
          if (bind(sockfd, (struct sockaddr *) &serv_addr,
36
                   sizeof(serv_addr)) < 0)</pre>
37
38
                   error("ERROR on binding");
39
          listen(sockfd,5);
40
          clilen = sizeof(cli_addr);
41
          newsockfd = accept(sockfd,
42
                       (struct sockaddr *) &cli_addr,
43
                       &clilen);
          if (newsockfd < 0)</pre>
44
               error("ERROR on accept");
45
          while(1)
46
47
                bzero(buffer, 256);
48
                n = read(newsockfd,buffer,255);
49
50
                if (n < 0) error("ERROR reading from socket");</pre>
                printf("Client: %s\n",buffer);
51
52
               bzero(buffer, 256);
               fgets(buffer, 255, stdin);
53
54
               n = write(newsockfd,buffer,strlen(buffer));
55
                if (n < 0) error("ERROR writing to socket");</pre>
56
                int i=strncmp("Bye" , buffer, 3);
                if(i == 0)
57
58
                     break;
59
          close(newsockfd);
60
61
          close(sockfd);
62
          return 0;
    }
63
```