```
/*Client.c*/
 #include<stdio.h
                      #include <stdlib.h>
                     #include <string.h>
                     #include <unistd.h>
                     #include <arpa/inet.h>
                     #define SIZE 1024
                     void send_file_data(FILE* fp, int sockfd, struct sockaddr_in addr)
                        int n;
                        char buffer[SIZE];
                        // Sending the data
                       while (fgets(buffer, SIZE, fp) != NULL)
                          printf("[SENDING] Data: %s", buffer);
                          n = sendto(sockfd, buffer, SIZE, 0, (struct sockaddr*)&addr,
                      sizeof(addr));
                         if (n == -1)
                           perror("[ERROR] sending data to the server.");
                            exit(1);
                         bzero(buffer, SIZE);
                        // Sending the 'END'
                        strcpy(buffer, "END");
                        sendto(sockfd, buffer, SIZE, 0, (struct sockaddr*)&addr,
                      sizeof(addr));
                       fclose(fp);
                      }
                     int main(void)
                        // Defining the IP and Port
                        char *ip = "127.0.0.1";
                        const int port = 8080;
                        // Defining variables
                        int server sockfd;
                        struct sockaddr_in server_addr;
                        char *filename = "client.txt";
```

FILE *fp = fopen(filename, "r");

```
// Creating a UDP socket
 server_sockfd = socket(AF_INET, SOCK_DGRAM, 0);
 if (server_sockfd < 0)</pre>
   perror("[ERROR] socket error");
   exit(1);
 }
 server addr.sin family = AF INET;
 server addr.sin port = port;
 server_addr.sin_addr.s_addr = inet_addr(ip);
 // Reading the text file
 if (fp == NULL)
   perror("[ERROR] reading the file");
   exit(1);
 // Sending the file data to the server
 send_file_data(fp, server_sockfd, server_addr);
 printf("[SUCCESS] Data transfer complete.\n");
 printf("[CLOSING] Disconnecting from the server.\n");
 close(server_sockfd);
 return 0;
}
```

char* filename = "server.txt";

{

/*Server.c*/

```
int n;
  char buffer[SIZE];
  socklen_t addr_size;
  // Creating a file.
  FILE* fp = fp = fopen(filename, "w");
  // Receiving the data and writing it into the file.
  while (1)
    addr_size = sizeof(addr);
    n = recvfrom(sockfd, buffer, SIZE, 0, (struct sockaddr*)&addr,
&addr_size);
    if (strcmp(buffer, "END") == 0)
    {
      break;
    }
    printf("[RECEVING] Data: %s", buffer);
    fprintf(fp, "%s", buffer);
    bzero(buffer, SIZE);
  fclose(fp);
}
int main()
{
  // Defining the IP and Port
  char* ip = "127.0.0.1";
  const int port = 8080;
  // Defining variables
  int server_sockfd;
  struct sockaddr_in server_addr, client_addr;
  char buffer[SIZE];
  int e;
  // Creating a UDP socket
  server_sockfd = socket(AF_INET, SOCK_DGRAM, 0);
  if (server_sockfd < 0)</pre>
    perror("[ERROR] socket error");
    exit(1);
  server_addr.sin_family = AF_INET;
  server_addr.sin_port = port;
  server_addr.sin_addr.s_addr = inet_addr(ip);
```

```
e = bind(server_sockfd, (struct sockaddr*)&server_addr,
sizeof(server_addr));
if (e < 0)
{
   perror("[ERROR] bind error");
   exit(1);
}

printf("[STARTING] UDP File Server started. \n");
write_file(server_sockfd, client_addr);

printf("[SUCCESS] Data transfer complete.\n");
printf("[CLOSING] Closing the server.\n");

close(server_sockfd);

return 0;
}</pre>
```