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RA1811031010010
FTP EX 10
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```

Client

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <arpa/inet.h>
#define SIZE 1024
void send_file(FILE *fp, int sockfd){
char data[SIZE] = {0};
while(fgets(data, SIZE, fp) != NULL) {
if (send(sockfd, data, sizeof(data), 0) == -1) {
perror("Error in sending file.");
exit(1);
bzero(data, SIZE);
int main(){
char *ip = 127.0.0.1;
int port = 8080;
4
int e;
int sockfd;
struct sockaddr in server addr;
FILE *fp;
char *filename;
printf("Enter filename ::");
scanf("%s",&*filename);
sockfd = socket(AF_INET, SOCK_STREAM, 0);
if(sockfd < 0) {
perror("[-]Error in socket");
exit(1);
printf("Server socket created successfully.\n");
server addr.sin family = AF INET;
server_addr.sin_port = port;
server addr.sin addr.s addr = inet addr(ip);
e = connect(sockfd, (struct sockaddr*)&server_addr, sizeof(server_addr));
if(e == -1) {
```

```
perror("Error in socket");
exit(1);
}
printf("Connected to Server.\n");
fp = fopen(filename,"r");
5
if (fp == NULL) {
  perror("Error in reading file.");
  exit(1);
}
send_file(fp, sockfd);
printf("File data sent successfully.\n");
printf("Closing the connection.\n");
close(sockfd);
return 0;
}
```

Server

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <arpa/inet.h>
#define SIZE 1024
void write_file(int sockfd){
int n;
FILE *fp;
char *filename = "rp.txt";
char buffer[SIZE];
fp = fopen(filename, "a");
while (1) {
n = recv(sockfd, buffer, SIZE, 0);
if (n <= 0){
break;
return;
fprintf(fp,"%s", buffer);
printf("Copied Data is : %s",buffer);
bzero(buffer, SIZE);
1
}
return;
int main(){
char *ip = 127.0.0.1;
```

```
int port = 8080;
int e;
int sockfd, new sock;
struct sockaddr in server addr, new addr;
socklen_t addr_size;
char buffer[SIZE];
sockfd = socket(AF_INET, SOCK_STREAM, 0);
if(sockfd < 0) {
perror("Error in socket");
exit(1);
printf("Server socket created successfully.\n");
server_addr.sin_family = AF_INET;
server_addr.sin_port = port;
server_addr.sin_addr.s_addr = inet_addr(ip);
e = bind(sockfd, (struct sockaddr*)&server_addr, sizeof(server_addr));
2
if(e < 0) {
perror("Error in bind");
exit(1);
printf("Binding successfull.\n");
if(listen(sockfd, 10) == 0)
printf("Listening....\n");
}else{
perror("Error in listening");
exit(1);
addr_size = sizeof(new_addr);
new sock = accept(sockfd, (struct sockaddr*)&new addr, &addr size);
write_file(new_sock);
printf("/nData has been written in the file.\n");
return 0;
```

Screenshot

```
| Desktop — a.out — 80×24 | Desktop — a.out — 80×24 | Desktop — a.out — 80×24 | Swapnanildhol@MacBook—Pro desktop % ./a.out | Sever socket created successfully. Binding successfull. Listening.... | Enter filename :: | Enter f
```