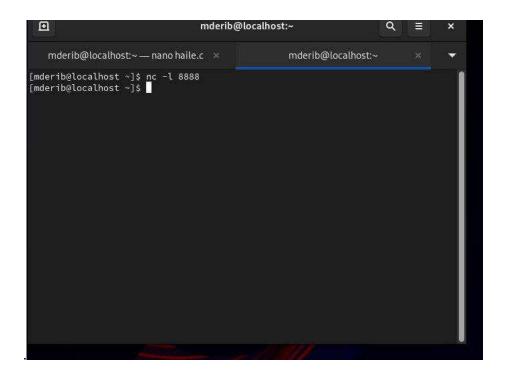
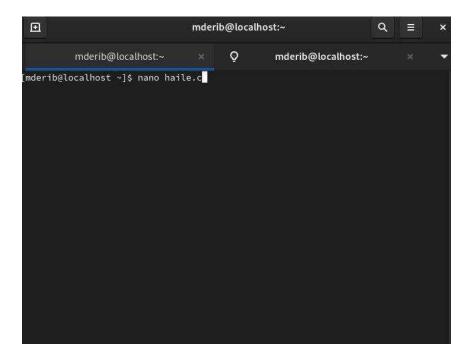
## **System call**

Code for the system call

```
#include <stdio.h>
#include <string.h>
#include <unistd.h>
#include <arpa/inet.h>
int main()
{
  int sock = socket(AF_INET, SOCK_STREAM, 0);
  struct sockaddr_in server;
  server.sin_family = AF_INET;
  server.sin_port = htons(8888);
  server.sin_addr.s_addr = inet_addr("127.0.0.1");
  if (connect(sock, (struct sockaddr*)&server, sizeof(server)) == 0) {
    printf("connected to server");
  } else {
    perror("connection failed");
  }
  close(sock);
  return 0;
}
```

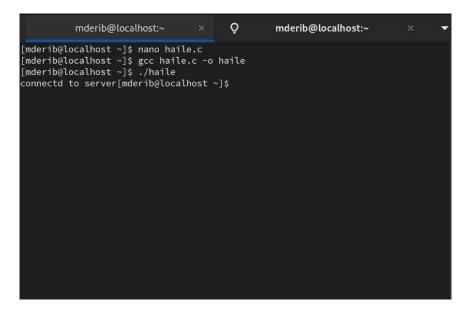


The screenshot shows a terminal window on a Linux system where the user has run the command nc=1 8888. This starts a Netcat listener on port 8888, waiting for incoming TCP connections. It's likely being used to test a client program, such as the C socket code shown previously



```
GNU nano 5.6.1
                                                           haile.c
 include<stdio.h>
#include<string.h>
#include<unistd.h>
#include<arpa/inet.h>
 int main(){
int sock =socket(AF_INET,SOCK_STREAM,0);
struct sockaddr_in server;
server.sin_family=AF_INET;
server.sin_port=htons(8888);
server.sin_addr.s_addr=inet_addr("127.0.0.1");
if(connect(sock,(struct sockaddr*)&server,sizeof(server))==0){
printf("connectd to server");
}else{
perror("connection failed");}
close(sock);
                                               [ Read 17 lines ]
nere Is AK Cut
eplace AU Paste
                        Write Out ^W Where Is
Read File ^\ Replace
                                                                                ^T Execute
^J Justify
 ^G Help
^X Exit
                                                                                                    ^C Location
                        Read File
                                            Replace
                                                                                    Justify
                                                                                                       Go To Line
```

Here is implementing the connect system call by using the code given in the above page



The result after implementing the code