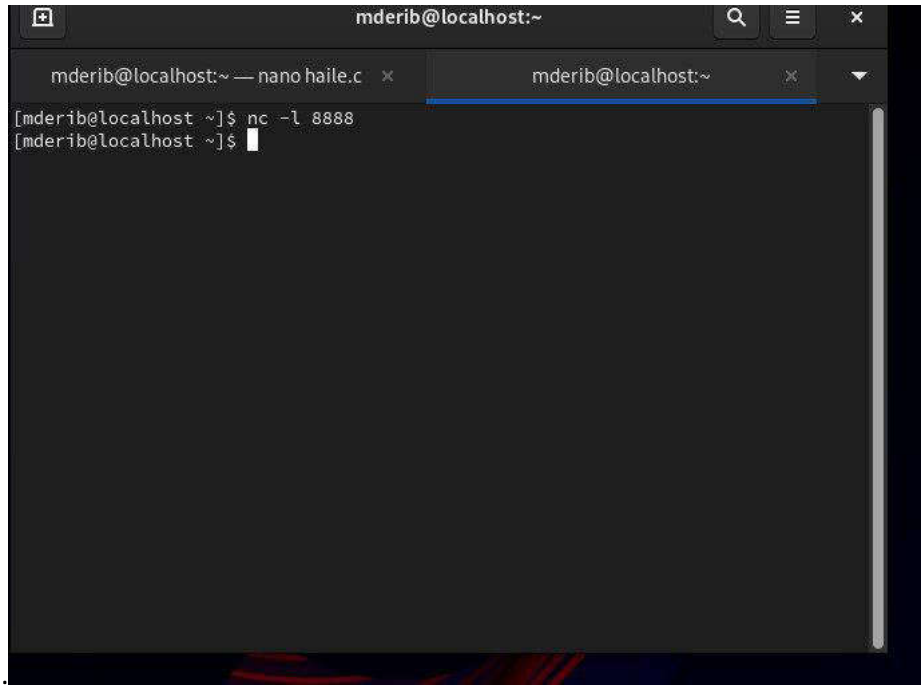
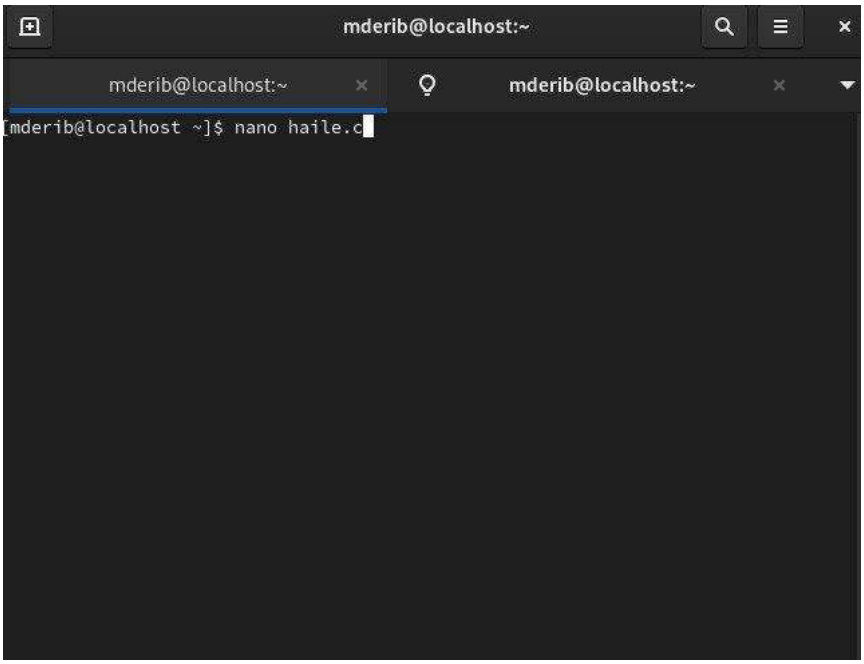
System call

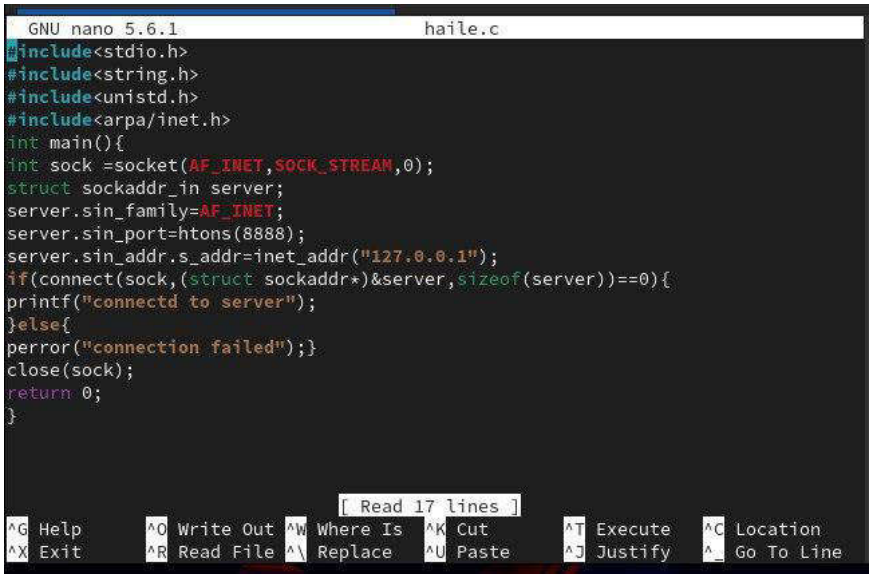
Code for the system call

```
#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;

}
```

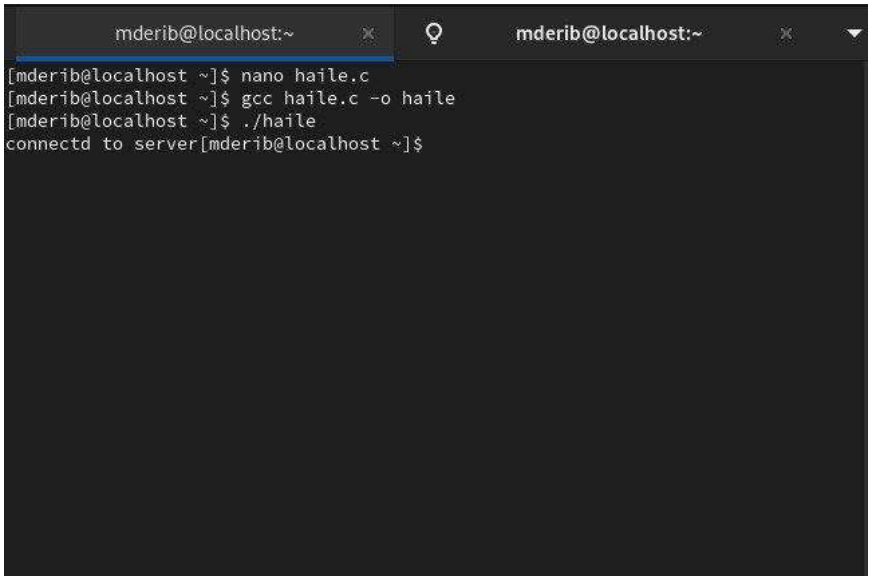


The screenshot shows a terminal window on a Linux system where the user has run the command `nc -l 8888`. This starts a Netcat listener on port 8888, waiting for incoming TCP connections. It's likely being used to test a client program, such as the C socket code shown previously





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



The result after implementing the code