LAB ASSIGNMENT-2

CSN-361 Computer Networks Laboratory

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Problem Statements

- 1. Write a socket program in C to connect two nodes on a network to communicate with each other, where one socket listens on a particular port at an IP, while other socket reaches out to the other to form a connection.
- 2. Write a C program to demonstrate both Zombie and Orphan process.

Implementations details

<u>1</u>

Buffer is used as a data structure.

Sockets are implemented for the communication between client and server.

The solution has 2 programs:

Server: This program creates a node which has a socket to listen on the port 8080 (localhost).

Client: This program created a node which sends a request on port 8080 to be read by the server program.

Code Snippets

Client Side Code :-

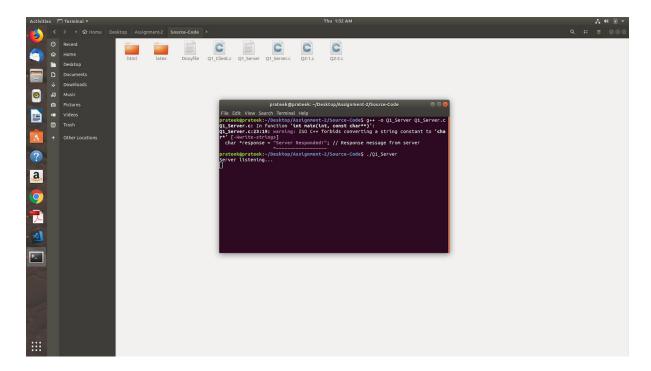
Server Side Code :-

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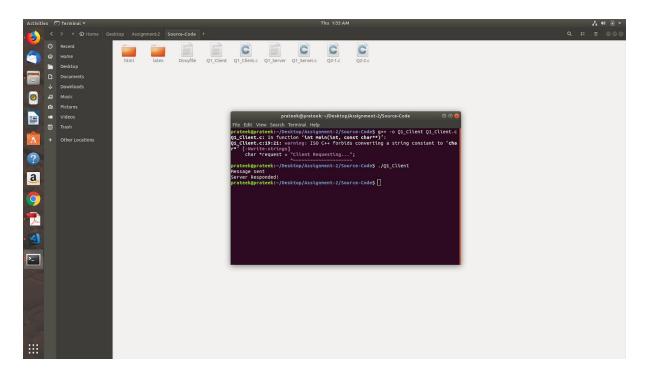
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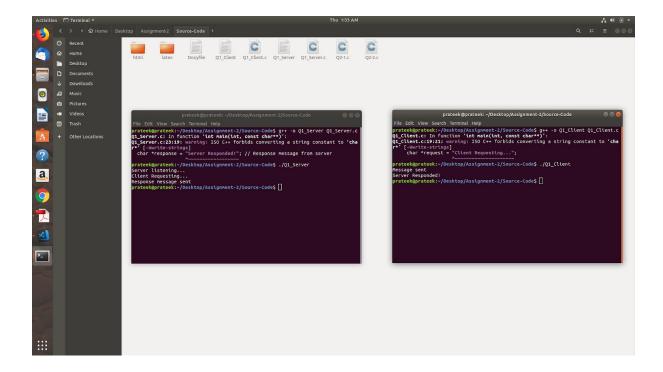
Results

1. Making the server ready to listen for requests made by client.



2. Client making request and getting the response from the server.





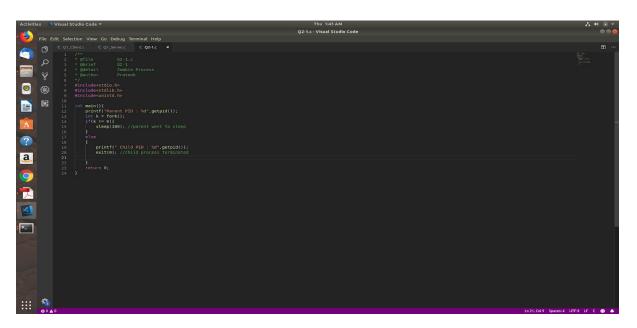
<u>2</u>

No major data structure is used.

The programs uses different System Calls to make zombie and orphan processes.

For ex:- fork(), exit(), sleep().

Code Snippets (Zombie and Orphan Processes)



Results

