CSN-361 Computer Networks Laboratory

Lab Assignment 1

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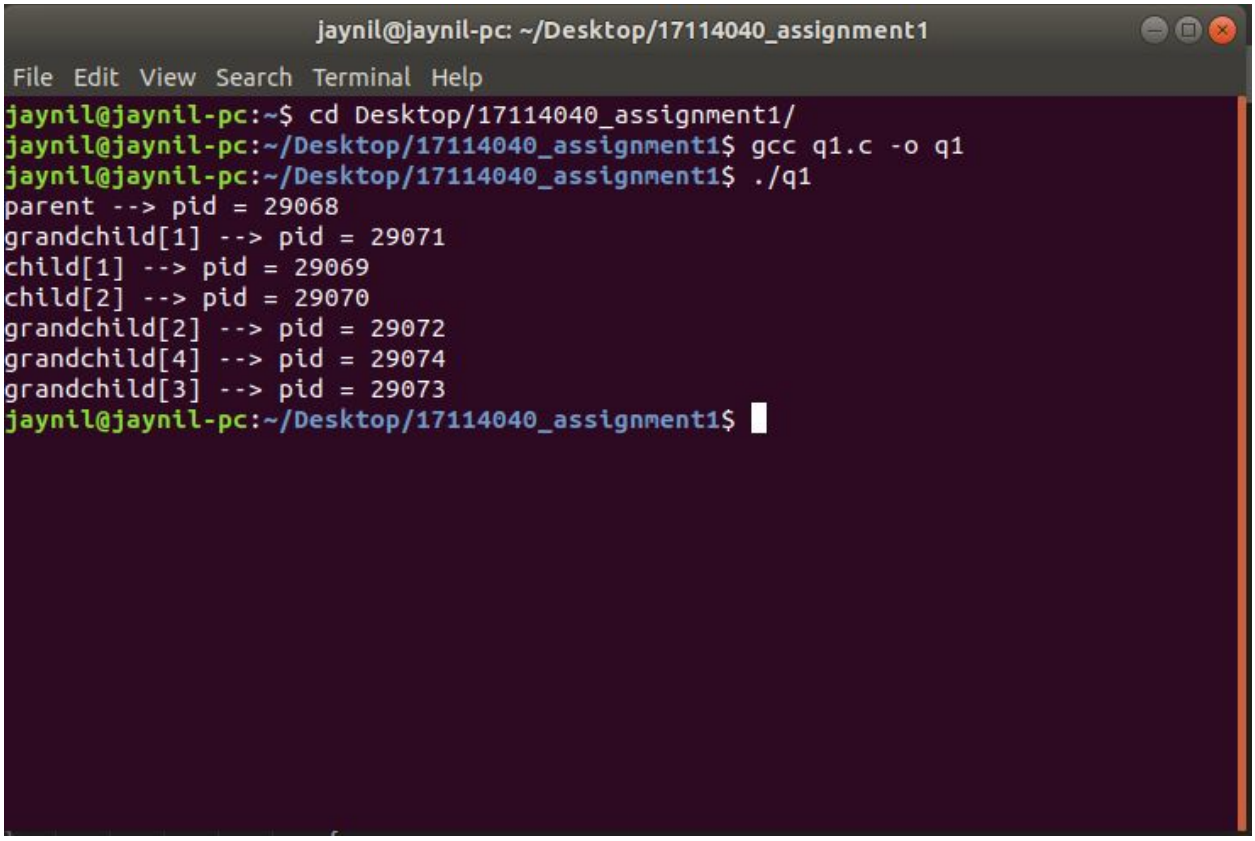
Question 1:

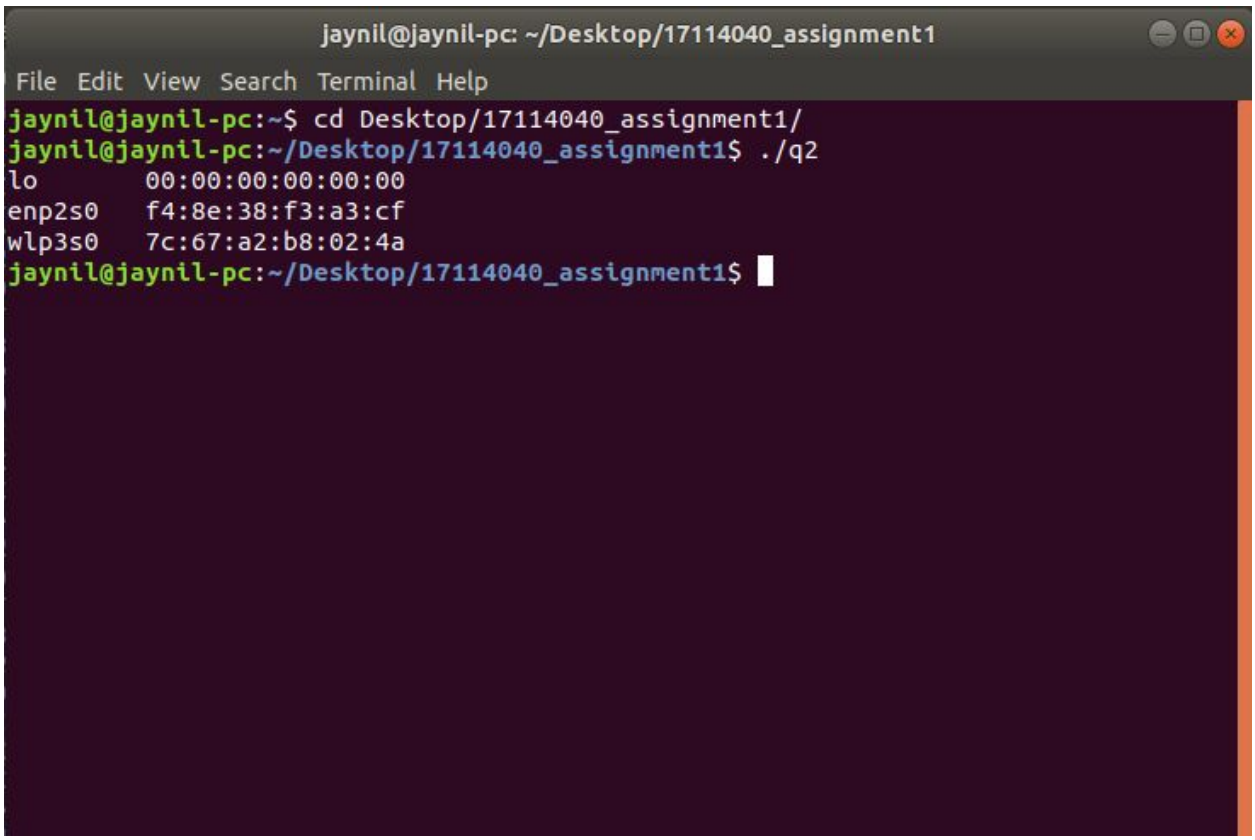
Write a C program in UNIX system that creates two children and 4 grandchildren. The program should then print PID of all the processes.



Use of if-else control flow statements are used with fork() to create 2 grandchildren of each child process.

Question 2:

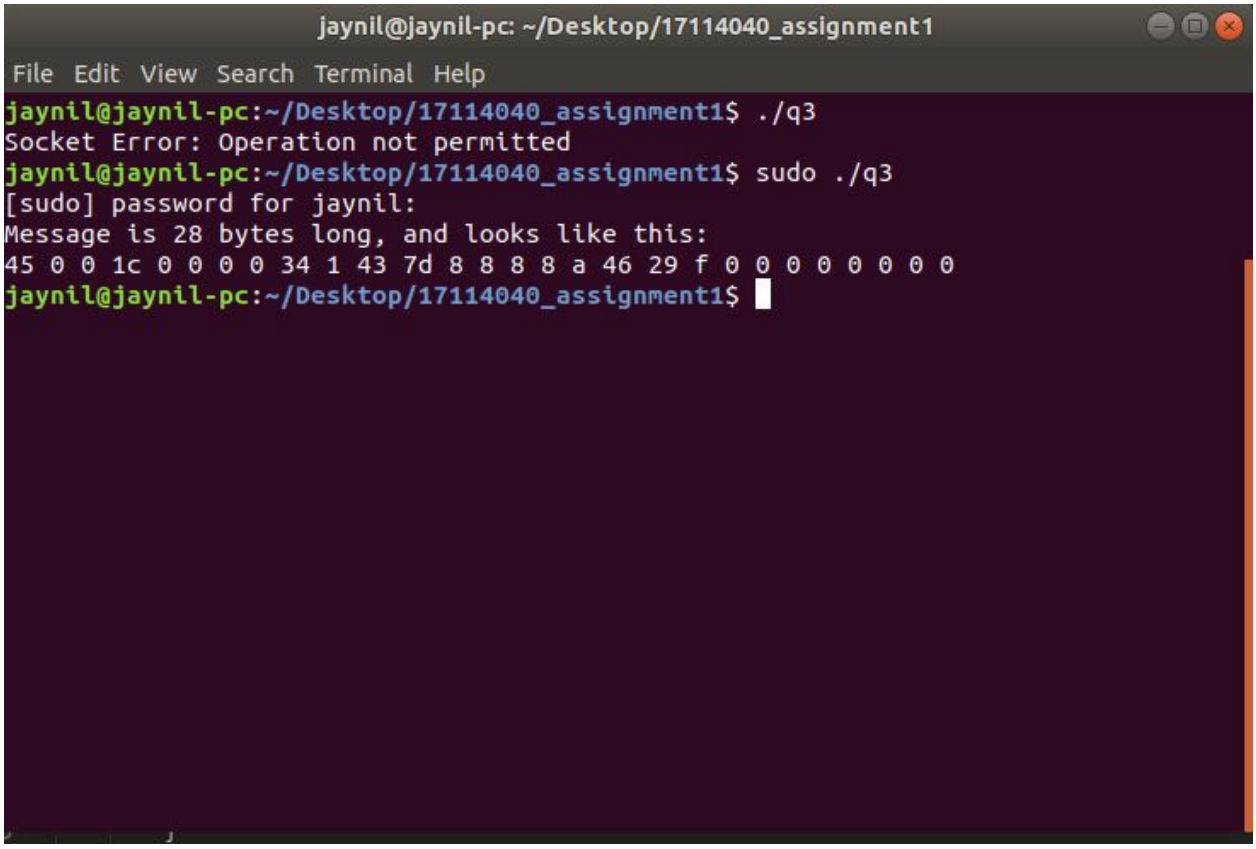
Write a C++ program to print the MAC address of your computer.



"ifaddrs" data structure is used to create null pointers. Also "sockaddr_ll" data structure is used to create socket.

Question 3:

Write your version of ping program in C language.



Following data structures are used:

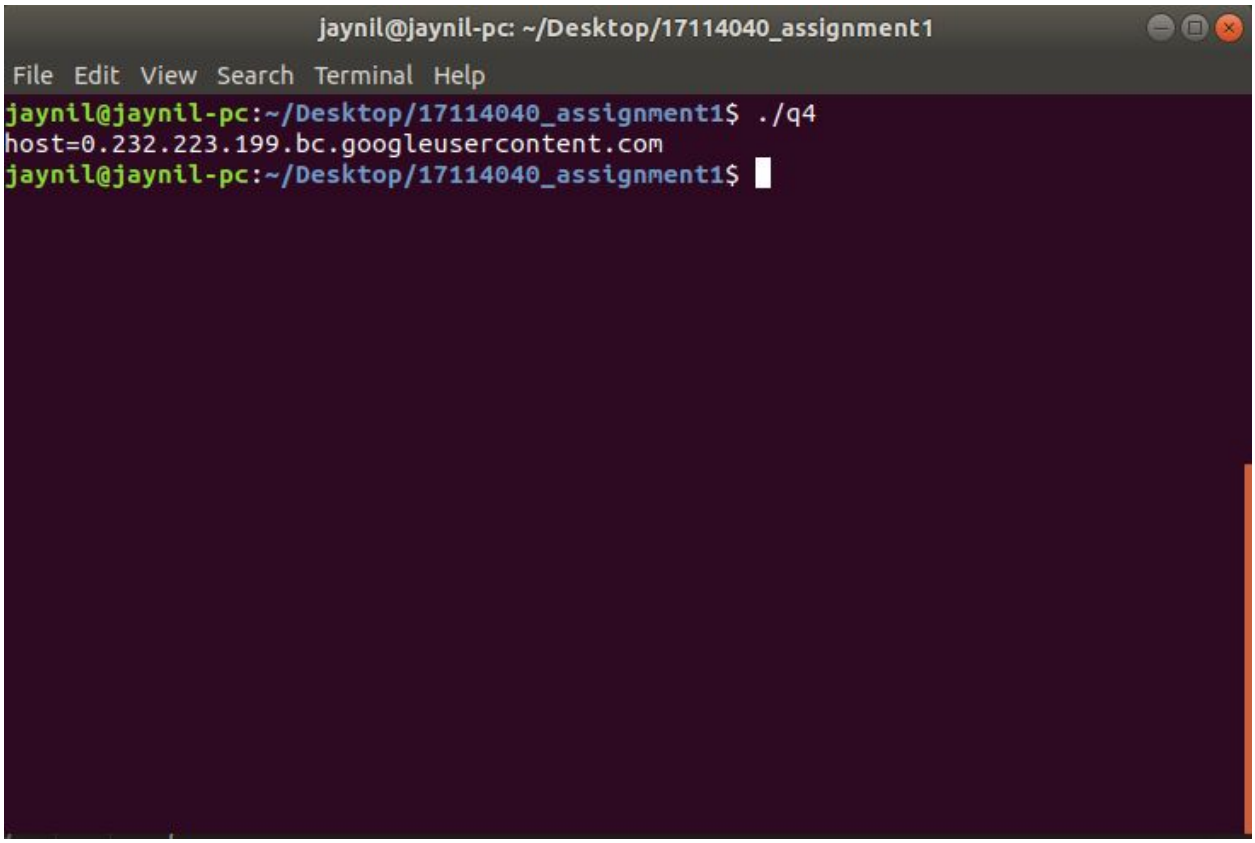
icmp_hdr_t

Sockaddr_in

sockaddr

Question 4:

Write a C program to find the host name from IP address.



Following data structures are used:

sockaddr

sockaddr_in