Q1

Write C program perform a dialog between parent and its child by using pipes method (e.g. the parent ask a question and the child answer it).

```
emad@vbox: ~/Desktop/emad1007395/assignment5/Q1
  GNU nano 2.5.3
                          File: q1.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
int main(){
  int a[2], b[2], bytesread;
  char message1 [100], message2 [100];
  pipe(a);
  pipe(b);
  if(fork()){ // Parent
    char* phrase1="Hello, What is your name and ID?";
    close (a[0]);
write (a[1],phrase1,strlen(phrase1)+1);
close (a[1]);
    wait();
    close (b[1]);
    bytesread = read (b[0],message2,100);
printf ("- Child: %s\n\n",message2);
    close (b[0]);
  else { // Child
    close (a[1]);
    bytesread = read (a[0],message1,100);
    printf ("\n- Parent: %s\n", message1);
    close (a[0]);
    close (b[0]);
    char* phrase2 = "Hi, I am Emad, my ID is 1007395";
    write (b[1],phrase2,strlen(phrase2)+1);
    close (b[1]);
  return 0;
   Get Help
               ^O Write Out
                               ^W Where Is
                                              ^K Cut Text
   Exit
               ^R Read File
                                 Replace
                                               ^U Uncut Text
```

Code

Screenshot

```
emad@vbox:~/Desktop/emad1007395/assignment5/Q1
emad@vbox:~/Desktop/emad1007395/assignment5/Q1$ ./a.out

- Parent: Hello, What is your name and ID?

- Child: Hi, I am Emad, my ID is 1007395

emad@vbox:~/Desktop/emad1007395/assignment5/Q1$
```