```
#include <unistd.h>
                                       //Needed for I2C port
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int file i2c;
int length;
unsigned char buffer[60] = {0};
//---- OPEN THE I2C BUS -----
char *filename = (char*)"/dev/i2c-1";
if ((file_i2c = open(filename, O_RDWR)) < 0)</pre>
   //ERROR HANDLING: you can check errno to see what went wrong
   printf("Failed to open the i2c bus");
   return;
}
int addr = 0x5a;
                       //<<<<The I2C address of the slave
if (ioctl(file_i2c, I2C_SLAVE, addr) < 0)</pre>
   printf("Failed to acquire bus access and/or talk to slave.\n");
   //ERROR HANDLING; you can check errno to see what went wrong
   return;
}
//---- READ BYTES -----
length = 4;
                      //<< Number of bytes to read
if (read(file_i2c, buffer, length) != length) //read() returns the number
of bytes actually read, if it doesn't match then an error occurred (e.g. no
response from the device)
   //ERROR HANDLING: i2c transaction failed
   printf("Failed to read from the i2c bus.\n");
}
else
{
   printf("Data read: %s\n", buffer);
}
//---- WRITE BYTES -----
buffer[0] = 0x01;
buffer[1] = 0x02;
length = 2;
                      //<<< Number of bytes to write
if (write(file_i2c, buffer, length) != length) //write() returns the number
of bytes actually written, if it doesn't match then an error occurred (e.g. no
response from the device)
{
   /* ERROR HANDLING: i2c transaction failed */
   printf("Failed to write to the i2c bus.\n");
}
```