

```
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{mode objfpc}{SH+}  
  
uses  
  baseUnix,  
  classes,  
  {$IFDEF UNIX}{$IFDEF UseCThreads}  
  cthreads,  
  {$ENDIF}{$ENDIF}  
  sysutils;  
  
const  
  I2C_SLAVE      = 1795;  
  
var  
  buf             : packed array [0..1] of char;  
  c               : char;  
  devPath        : string = '/dev/i2c-1';  
  handle         : Cint;  
  iDevAddr       : Cint = $04;  
  
begin  
  
try  
  handle := fopen(devPath,O_RDWR);  
  fpIoctl(handle, I2C_SLAVE, pointer(iDevAddr));  
except  
  writeln('Error initializing i2c');  
  halt;  
end;  
  
while true do begin  
  
  write('Enter digit 1-9:');  
  readln(c);  
  if (not(c in ['1'..'9'])) then begin  
    writeln('oops - try again');  
    continue;  
  end;  
  buf[0] := chr(ord(c) - ord('0'));  
  
  try  
    fpwrite(handle, buf, 1);  
  except  
    writeln('Error writing');  
    halt;  
  end; //try  
  
  buf[0] := #99;  
  sleep(10);  
  
  try  
    fpread(handle, buf, 1);  
  except  
    writeln('Error reading');  
    halt;  
  end; //try  
  
  writeln('buf=', ord(buf[0]));  
end; //while  
  
fclose(handle);  
  
end.
```