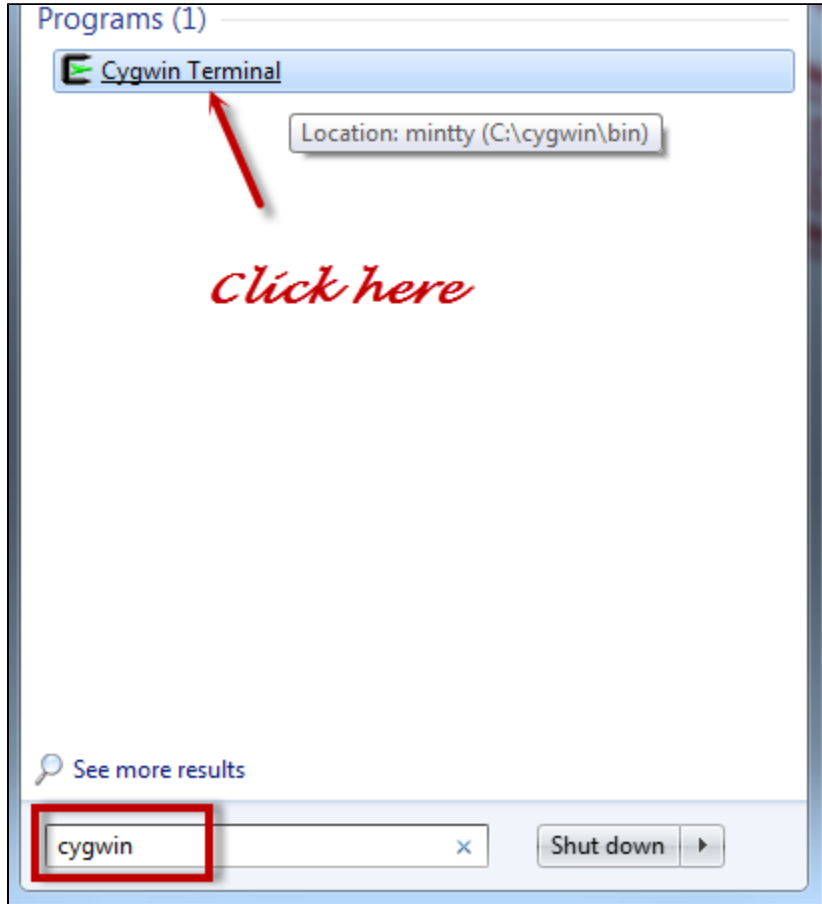


# Compiling in C using gcc Compiler

## Instructions for Compiling a C program with the gcc Compiler

Download [simple.c](#), a simple test program, by [right-clicking here](#) and selecting *Save Link As*. Save this file on your desktop.

Start *Cygwin* which provides a Linux-like environment on Windows. *Cygwin* and *gcc* are free thanks to the open source movement ... yay, open source!.



Change directory to your desktop using the `cd` command as follows. Note that my username is *rb88*. You need to replace this with your username.

```
rb88@en-ma-swnsn-05 ~  
$ cd C:/Users/rb88/Desktop
```

Compile *simple.c* using the *gcc* compiler and create the executable *simple.exe*.

```
rb88@en-ma-swnsn-05 /cygdrive/c/Users/rb88/Desktop  
$ gcc simple.c -o simple.exe
```

Run *simple.exe*.

```
rb88@en-ma-swnsn-05 /cygdrive/c/Users/rb88/Desktop  
$ ./simple.exe
```

Note that `./` needs to precede the executable name to indicate that it is in the current folder or directory. If the program runs normally, you'll get the output "This is a native C program" written to the cygwin window.

```
rb88@en-ma-swnsn-05 /cygdrive/c/Users/rb88/Desktop  
$ ./simple.exe  
This is a native C program.
```

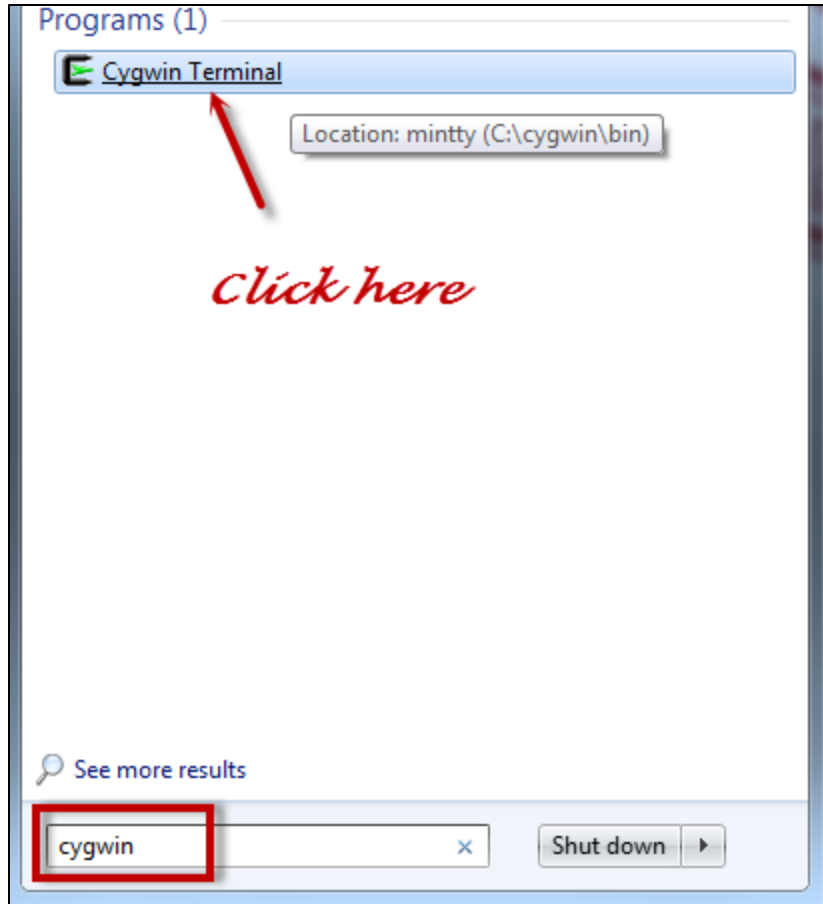
## Instructions for Compiling a C program with Visual Studio

See [this page](#).

## Instructions for Compiling a *FORTRAN* program with the *gfortran* Compiler

Download [pi.f90](#), a simple test program, by [right-clicking here](#) and selecting *Save Link As*. Save this file on your desktop.

Start *Cygwin* which provides a Linux-like environment on Windows. *Cygwin* and *gfortran* are free thanks to the open source movement ... yay, open source!.



Change directory to your desktop using the `cd` command as follows. Note that my username is *rb88*. You need to replace this with your username.

```
rb88@en-ma-swnsn-05 ~  
$ cd C:/Users/rb88/Desktop
```

Compile *pi.f90* using the *gfortran* compiler and create the executable *pi.exe*.

```
rb88@en-ma-swnsn-05 /cygdrive/c/Users/rb88/Desktop  
$ gfortran pi.f90 -o pi.exe
```

Run *pi.exe*.

```
rb88@en-ma-swnsn-05 /cygdrive/c/Users/rb88/Desktop  
$ ./pi.exe  
Pi= 3.1415824810637520
```

Note that `./` needs to precede the executable name to indicate that it is in the current folder or directory. If the program runs normally, you'll get the value of pi written to the cygwin window as above.