

# Project 7: Compiling C on Windows 7 (15 pts.)

## What You Need

- A Windows machine, real or virtual. These instructions work on Windows 7 or Server 2008. If you are using Windows 10, use the other set of instructions.

## Purpose

You will write a small C program and compile it.

## Downloading and Installing Visual Studio Express Installer File

The Visual Studio file is 4.7 GB. If you can't download it at home, use the hacking lab.

In a Web browser, go to <http://www.visualstudio.com/downloads/download-visual-studio-vs>

On the left side, expand the "Visual Studio 2013" section. Click "Express 2013 for Windows".

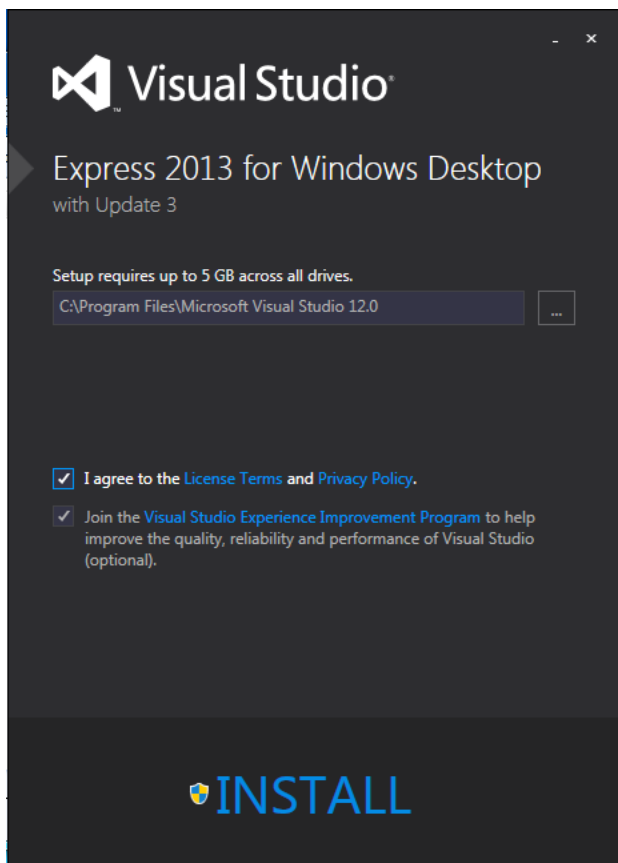
A file named **winexpress\_full.exe** downloads. Navigate to that file in File Explorer, right-click it, and click "Run as Administrator".

If warning boxes pop up, approve running the software.

A "Visual Studio" box opens, as shown below.

Check the "I agree" box.

At the bottom of the box, click **Install**.



Wait while software downloads and installs. It will take a long time, perhaps an hour.

Install the software with the default options.

When I did it, I got a message saying "Microsoft SQL Server 2012 Express LocalDB Package failed." It's OK to just ignore that--we don't need SQL Server.

Restart your machine when you are prompted to.

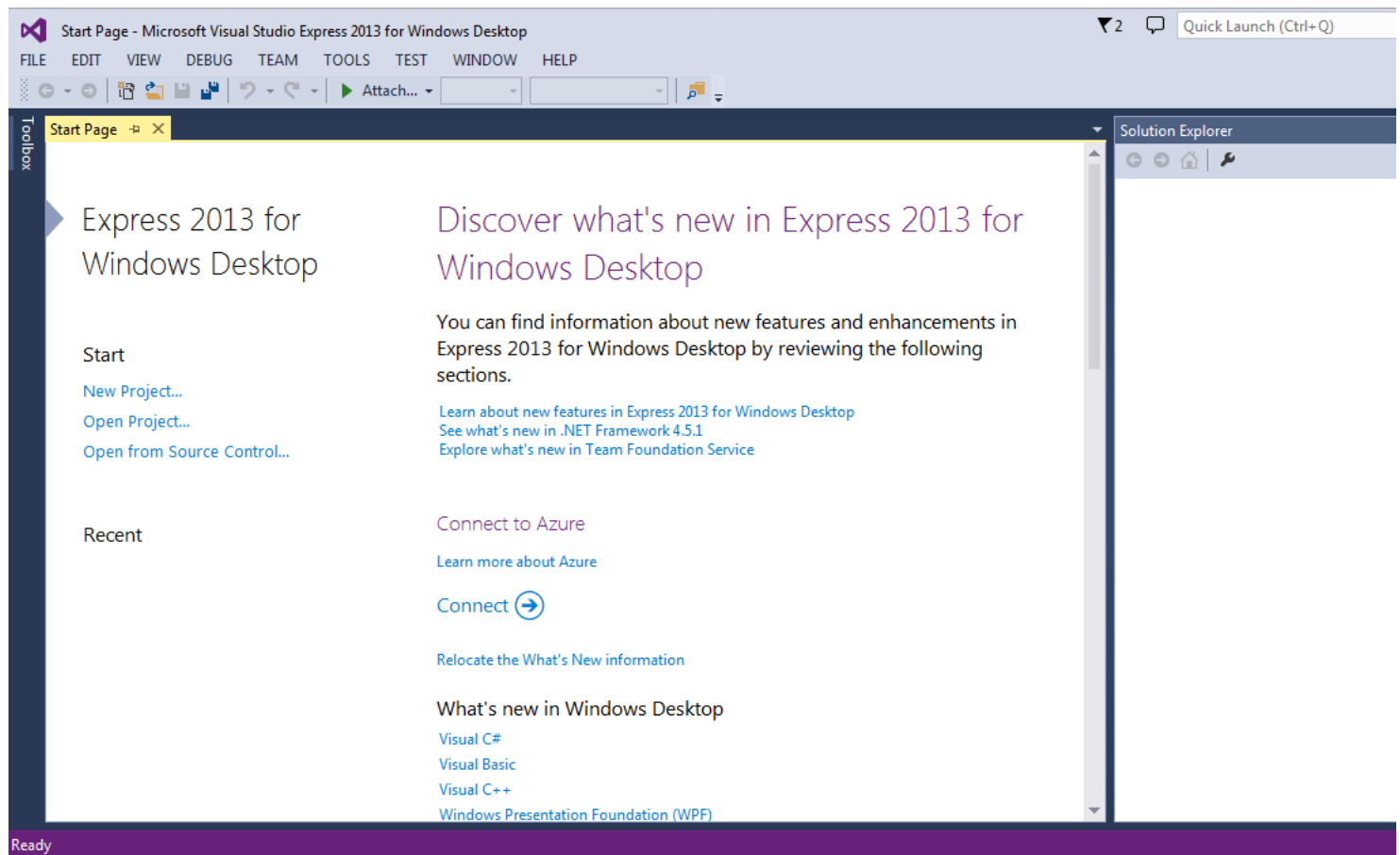
## Launching Visual Studio Express

Click **Start**. Click "VS Express 2013 for Desktop".

A box appears, asking you to "Sign in". Click "Not now, maybe later".

If a box pops up saying "Enable Developer Mode for Windows 10", click **OK**.

Visual Studio Express launches, as shown below:



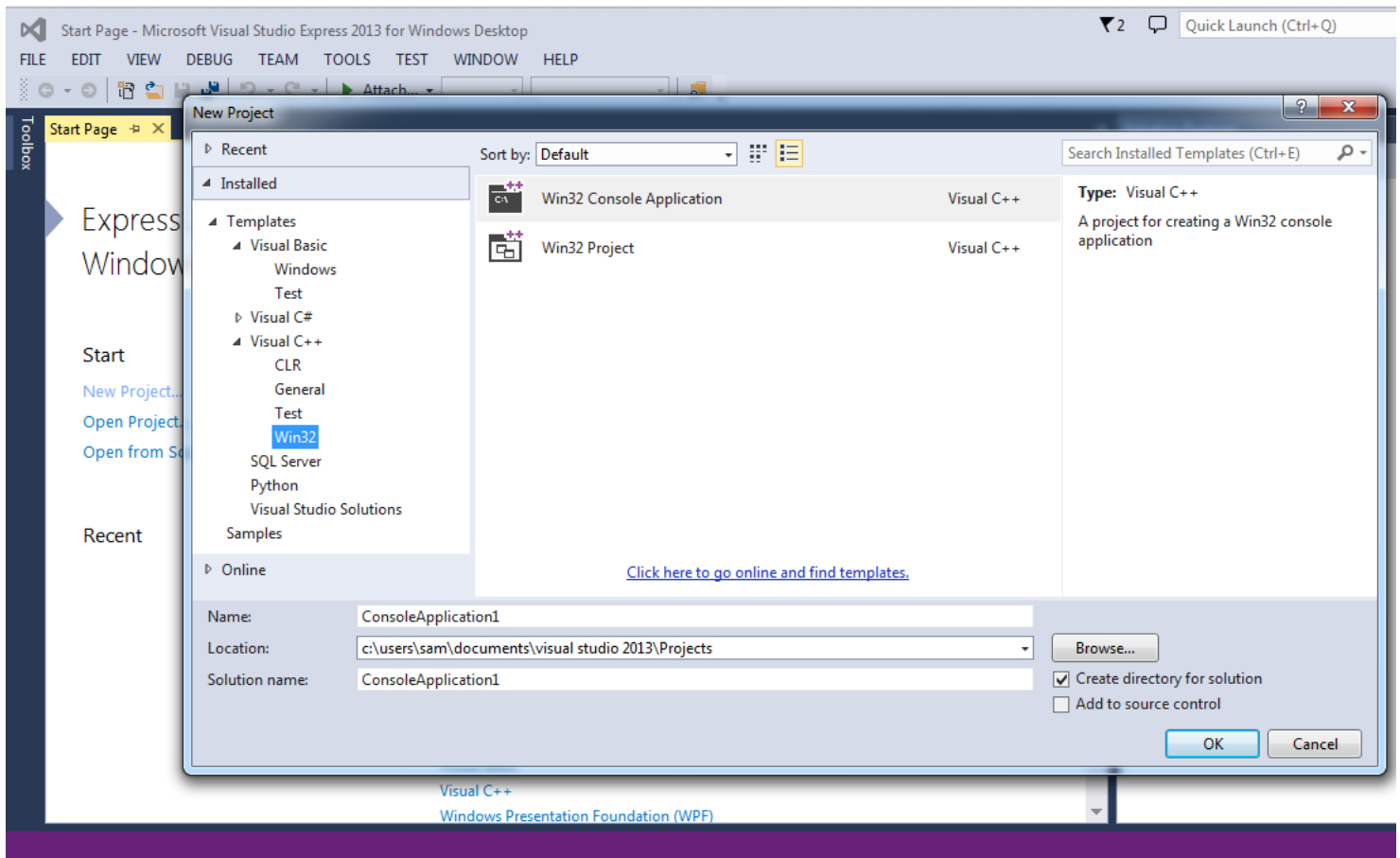
## Creating a Simple C Program

From the "Visual Studio Express 2013" menu, click **FILE**, "**New Project...**".

In the "New Project" window, on the left, expand the "**Visual C++**" container.

Click **Win32**.

In the center pane, accept the default selection of "**Win32 Console Application**", as shown below.



At the bottom of the "New Project" window, type a Name of **YOURNAME-1**, replacing "YOURNAME" with your own name. Do not use any spaces in the name.

In the "Location" line, notice the location files will be saved in--it's a subfolder of your Documents folder.

In the "New Project" window, click **OK**.

A box opens, titled "Welcome to the Win32 Application Wizard".

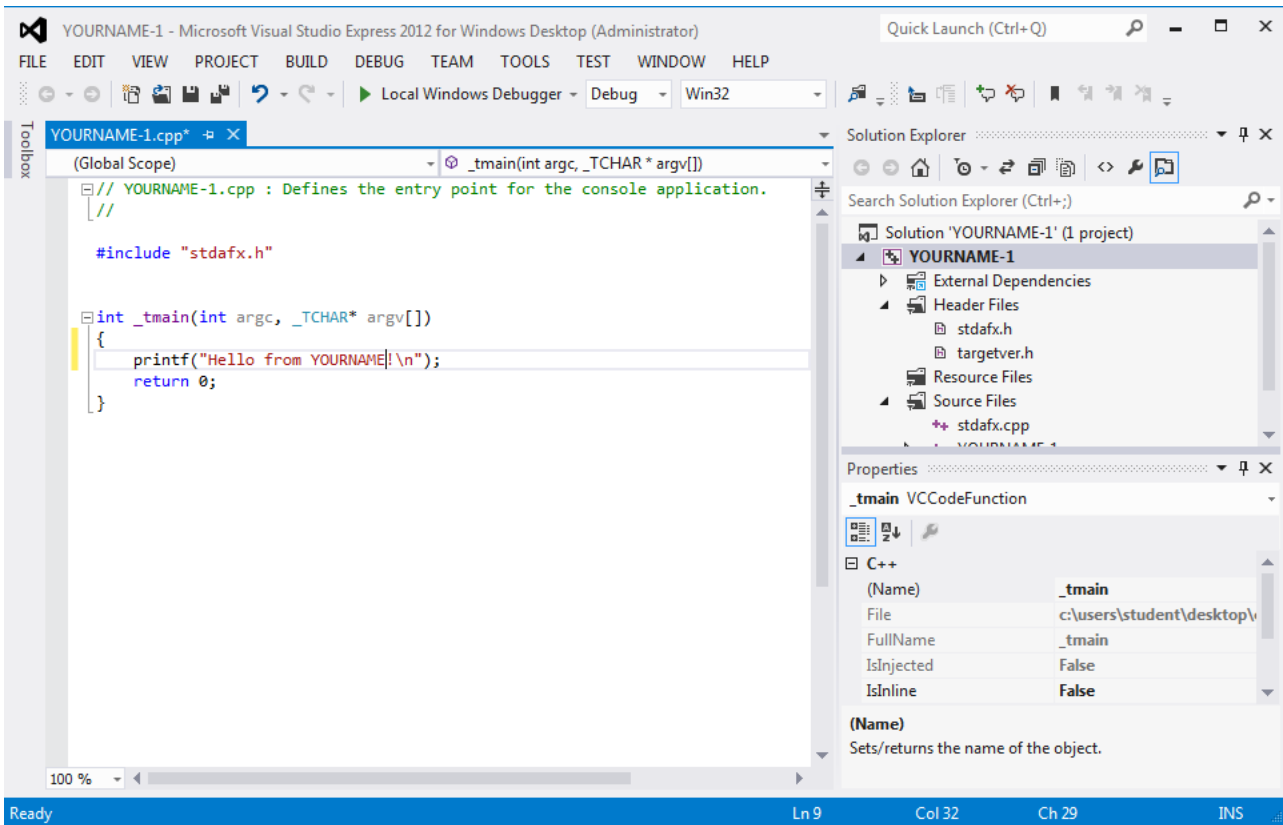
Click **Next**. In the next screen, accept the default settings and click **Finish**.

A window opens, showing a simple C program.

Add this line to the program, as shown below.

Do not use the literal string "YOURNAME"--replace it with your own name.

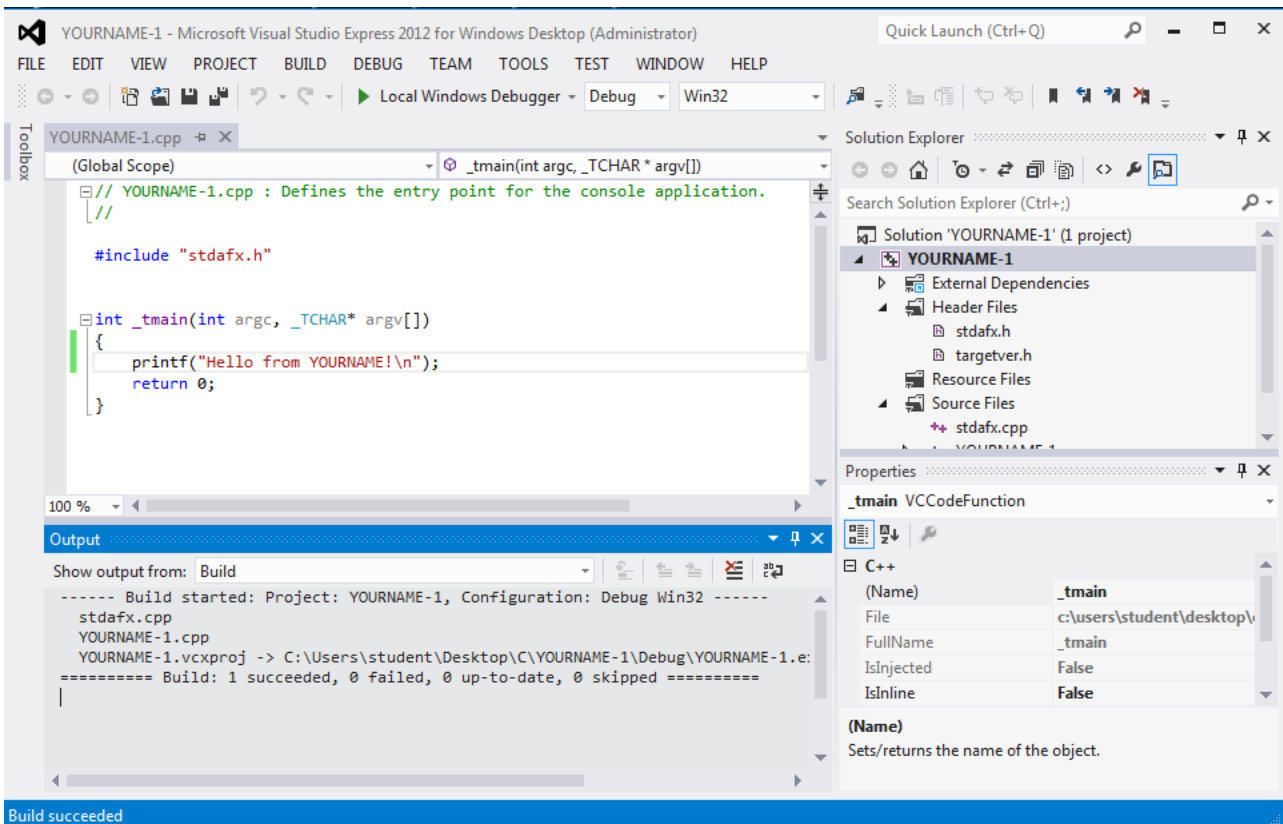
```
printf("Hello from YOURNAME!\n");
```



## Compiling your Program

Click **BUILD**, "Build Solution".

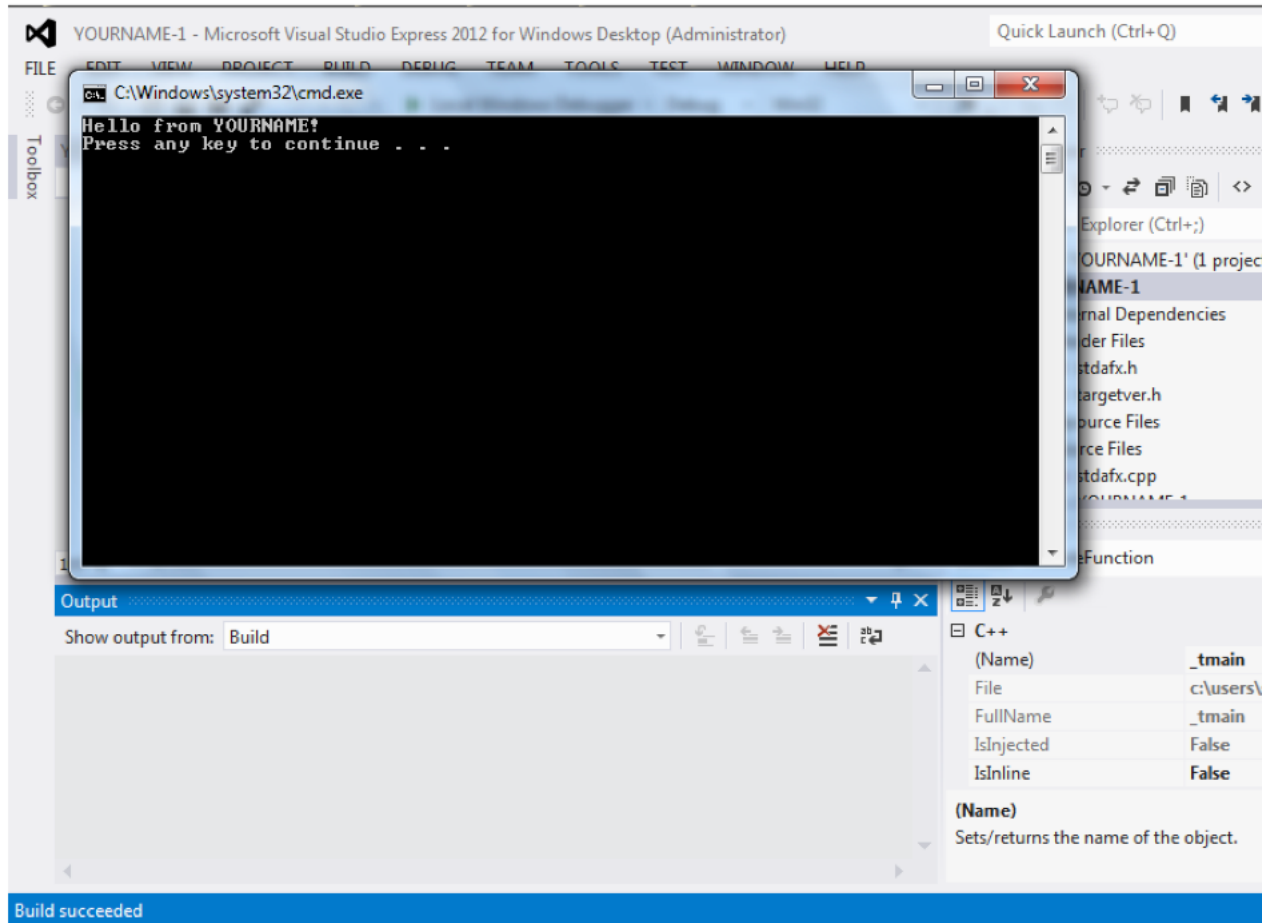
You should see the message "Build: 1 succeeded" at the bottom of the window, as shown below.



## Running your Program

Click **DEBUG**, "Start Without Debugging".

A Command Prompt window opens, showing the message with your name in it, as shown below:



## Saving the Screen Image

Make sure you can see the windows showing "Hello from YOURNAME!", as shown above.

On your keyboard, press the PrntScr key.

Click **Start**, type in **PAINT**, and open Paint.

Press **Ctrl+V** to paste in the image of your desktop.

**YOU MUST SUBMIT WHOLE-DESKTOP IMAGES TO GET FULL CREDIT.**

Save the image with a filename of "**Proj 7 from YOUR NAME**".

## Turning in Your Project

Email the image to: [cnit.126sam@gmail.com](mailto:cnit.126sam@gmail.com) with a subject line of **Proj 7 From Your Name**, replacing Your Name with your own first and last name. Send a Cc to yourself.

## References

[Creating a Win32 Console Application](#)

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