



Lab 1 Introduction to C++ compiler and Dev C++

220217

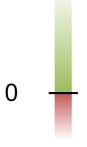
Grading policy



Hand in on time.

Program can be compiled, and the answer is correct. Based on your coding style and code performance, you may get better grade.





Absence or delay submission.

Program can't be compiled, or the answer is wrong.



Plagiarism and copy are not allowed!!

-40 on your **overall score**

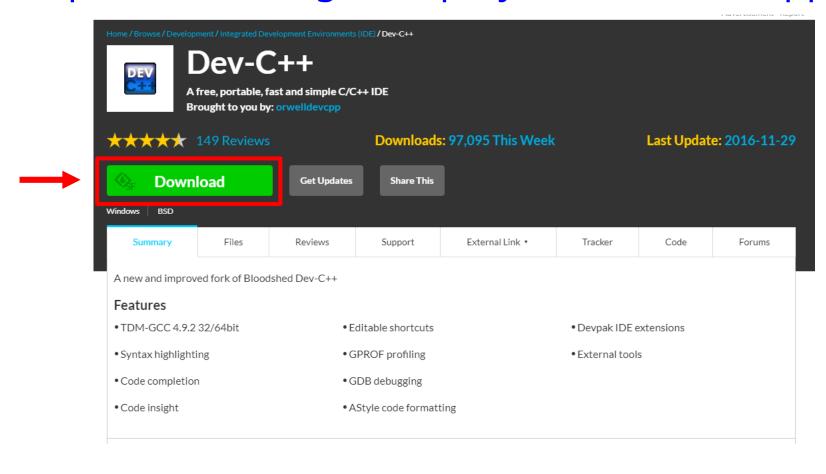
Course Rule

- There are some assignments for every lab.
 If you complete it, please ask TAs for demo, and upload your .cpp file to new E3.

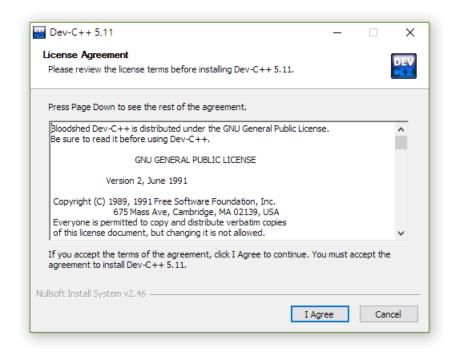
 Furthermore, do the double-check with the check form.
- No plagiarism, or you will get -40 on overall score.
- Leave of absence: If you need to take a day-off, please email to TAs with new E3 before the course and it will not be calculated in the final score.

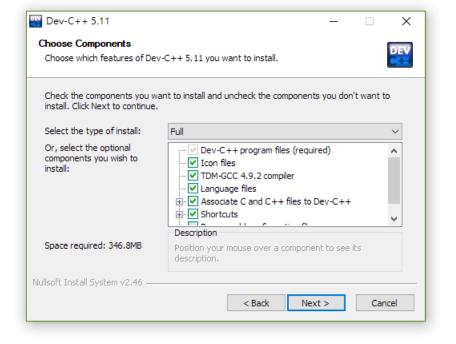
Download

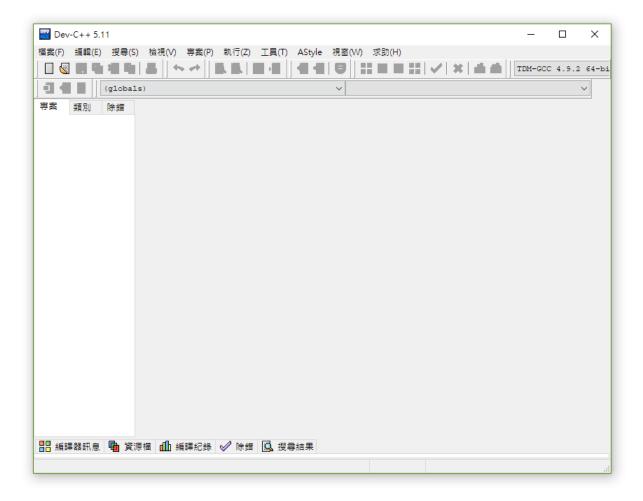
- Download Dev C++
- https://sourceforge.net/projects/orwelldevcpp/



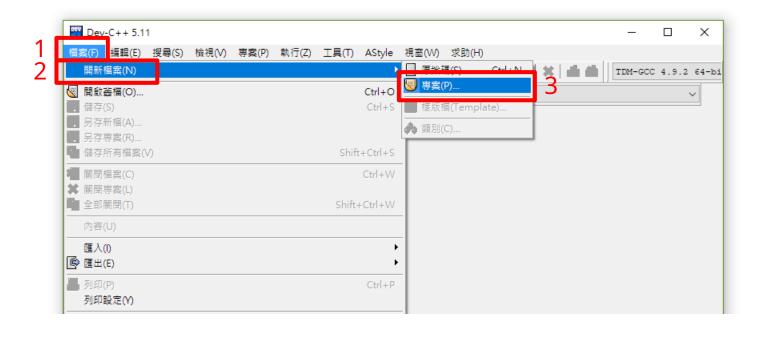
Installation





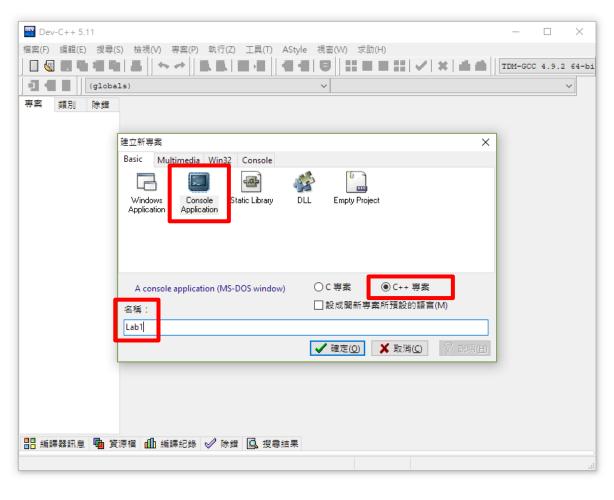


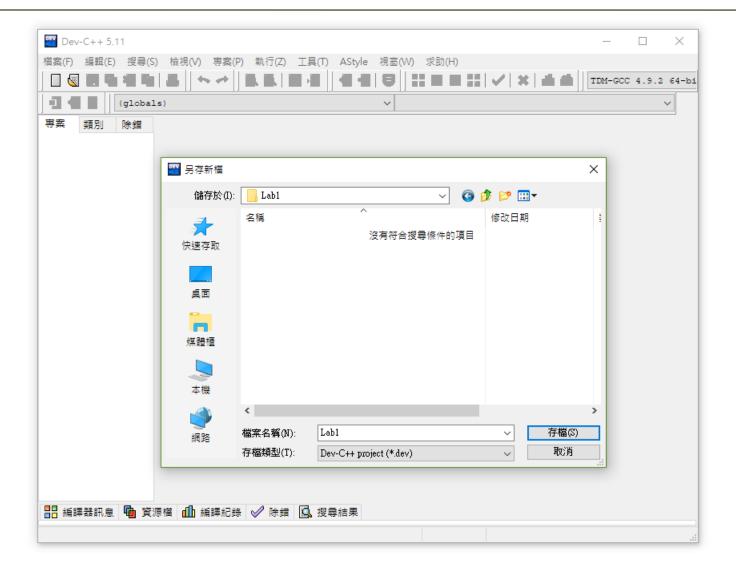
Create a new project

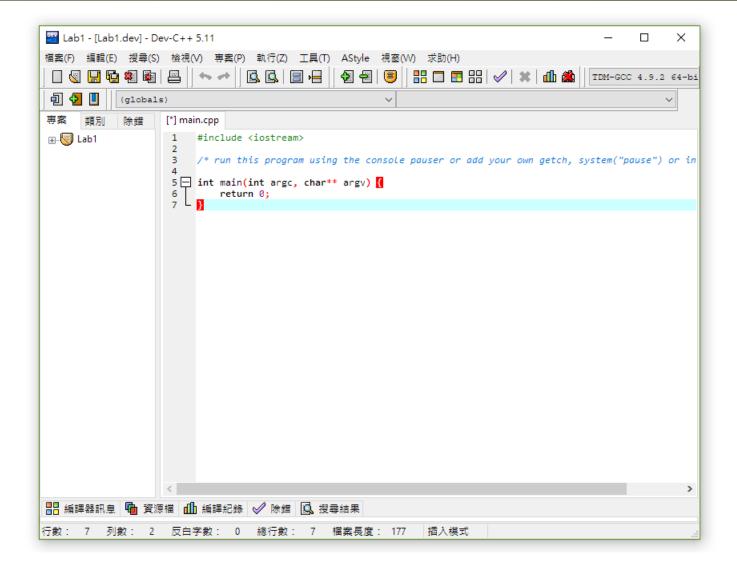


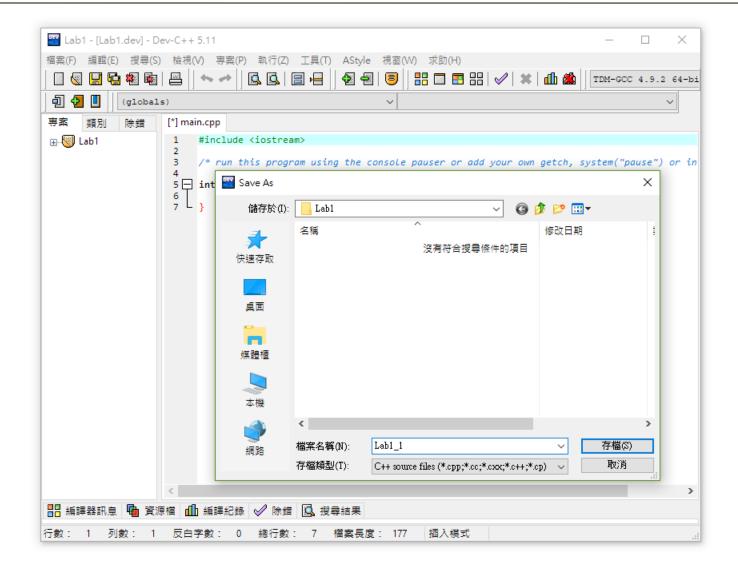
Select type of project

Console application

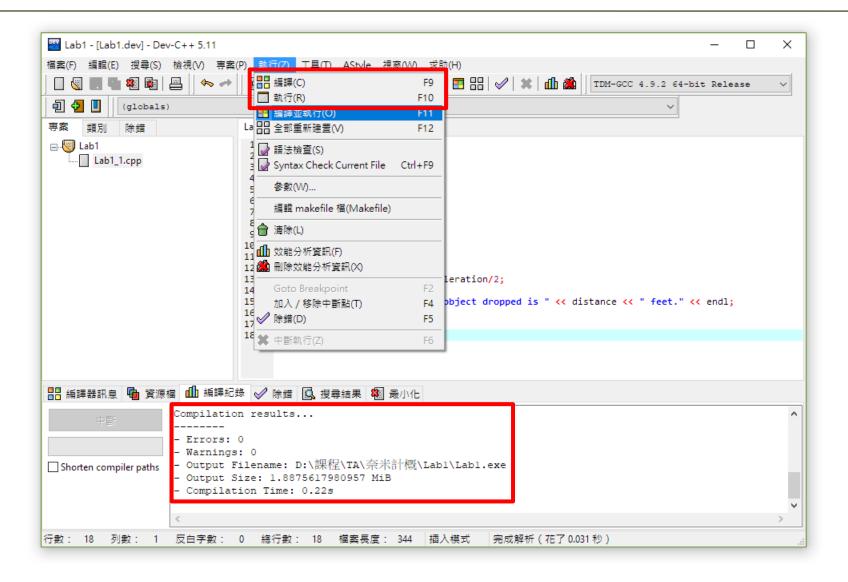




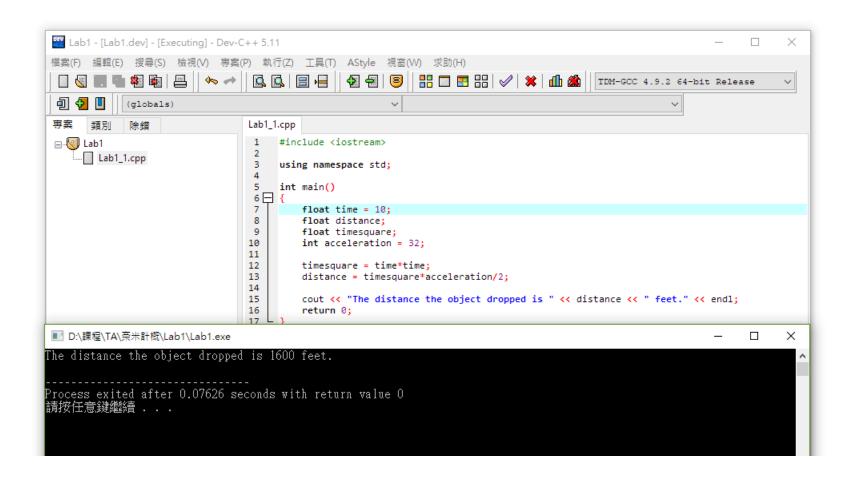




Build and run



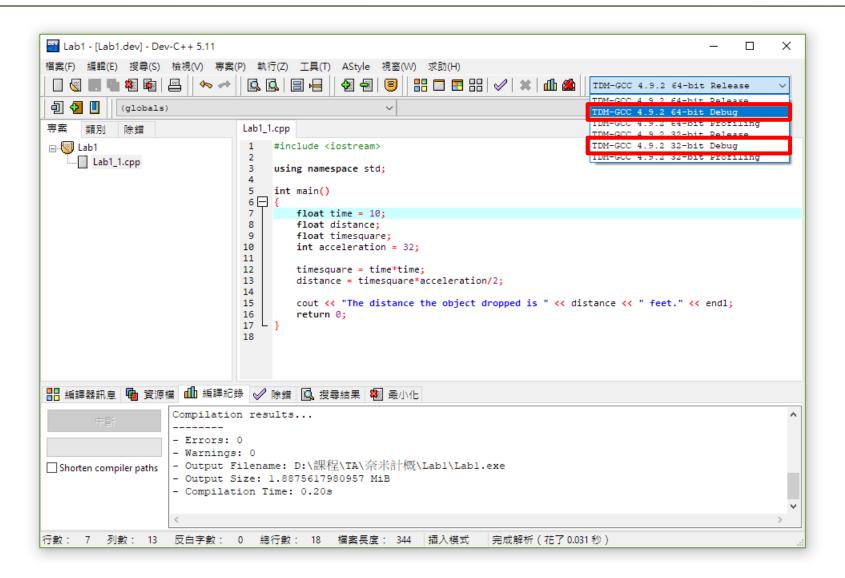
The output console



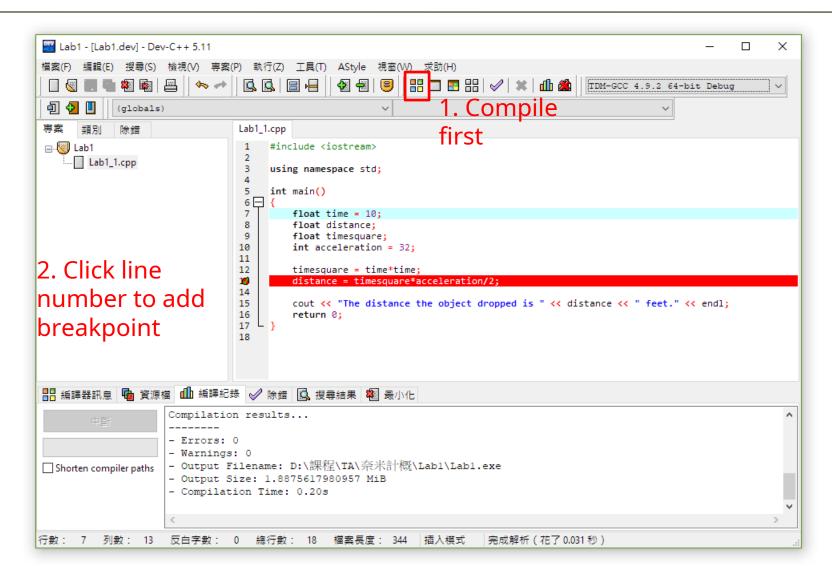
Note

- In order to improve your programming skill, you need to know how to debug.
- Therefore, don't always raise your hand, and try to solve the errors by yourself.

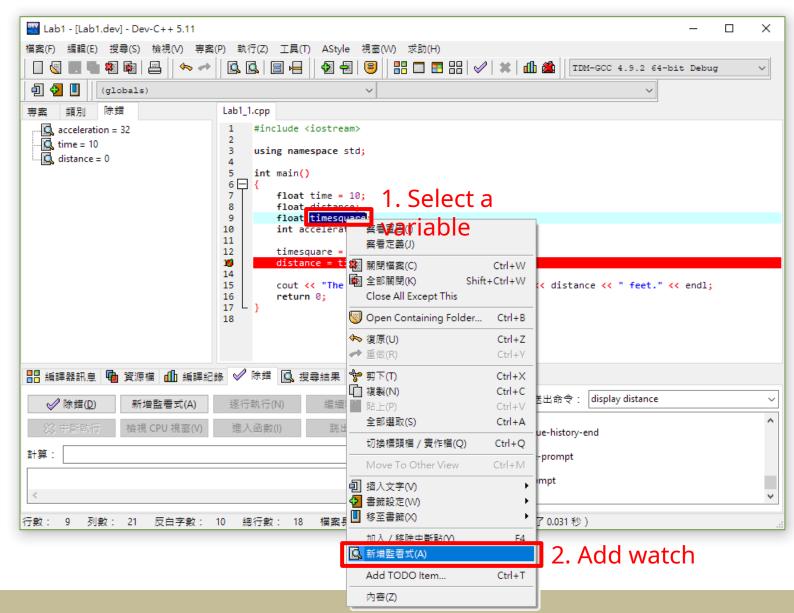
Debug mode



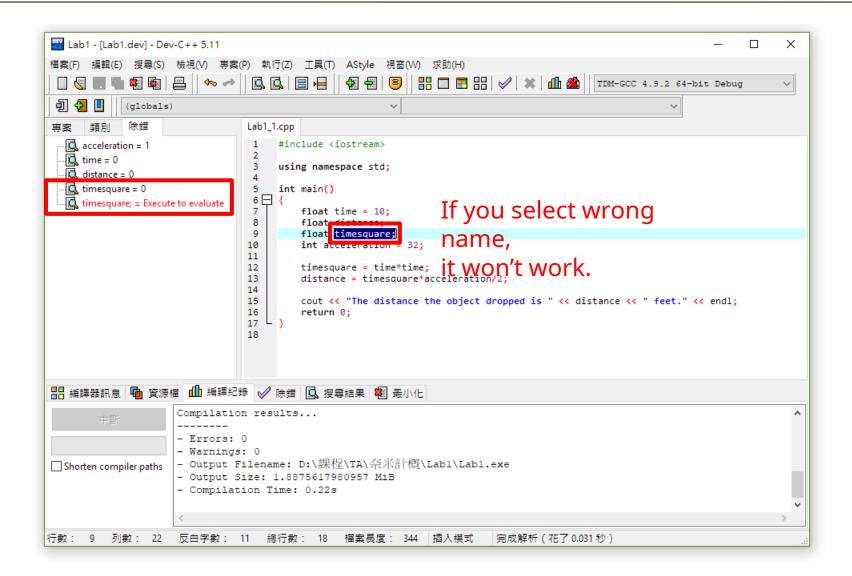
Breakpoint



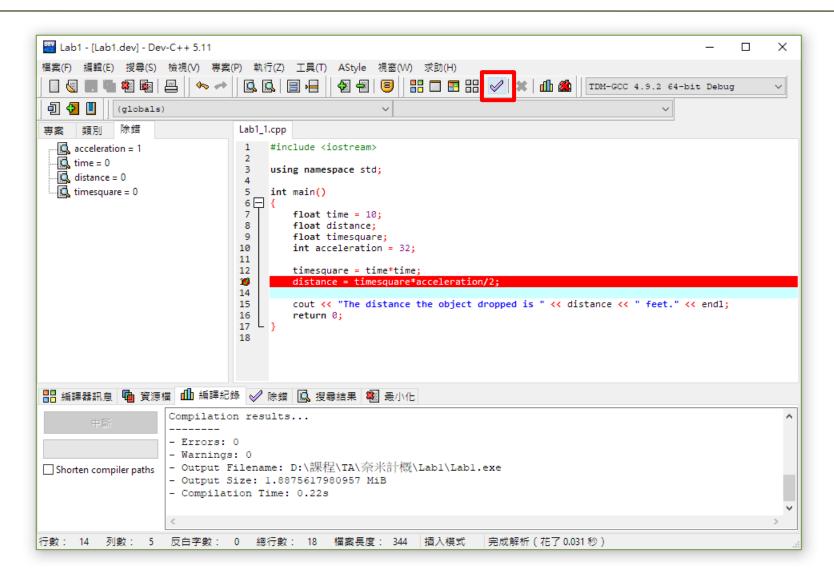
Add watch (1/2)



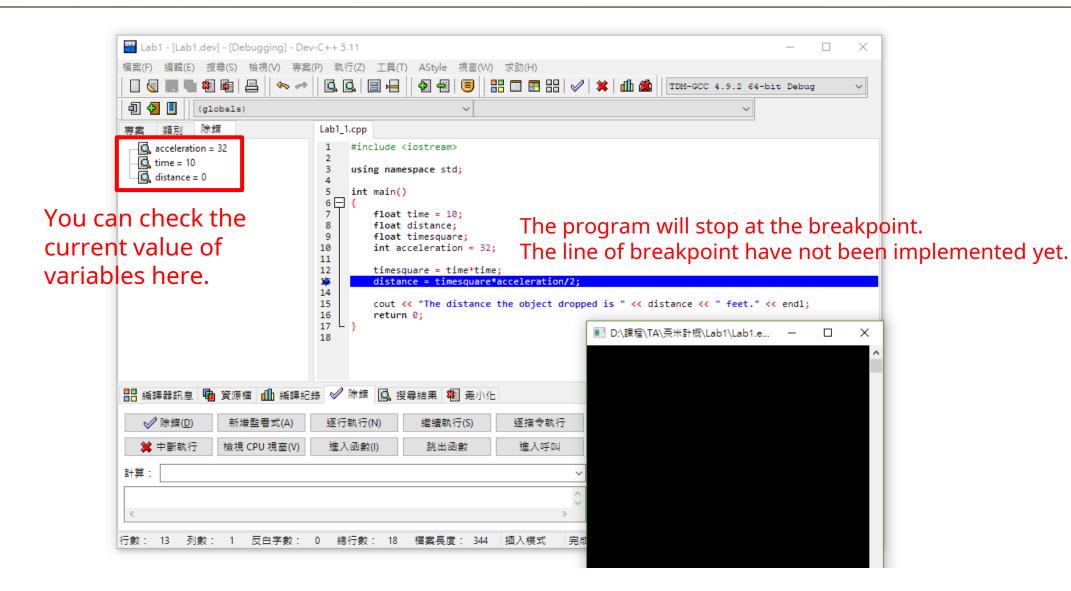
Add watch (1/2)



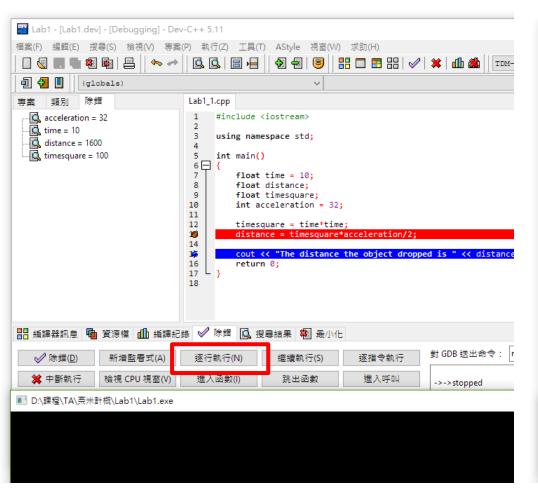
Start debugging

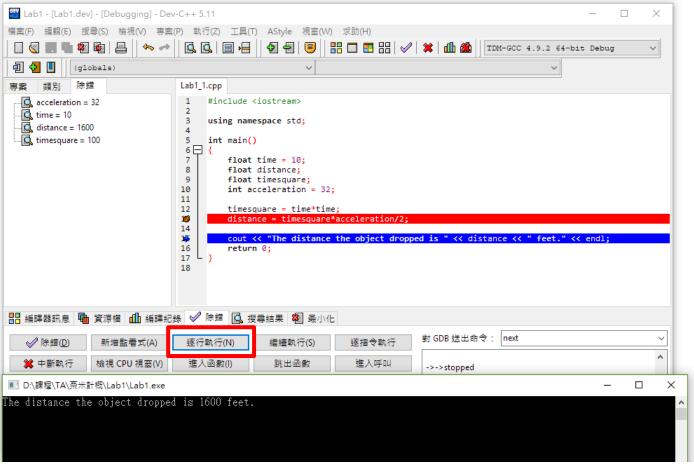


Start debugging

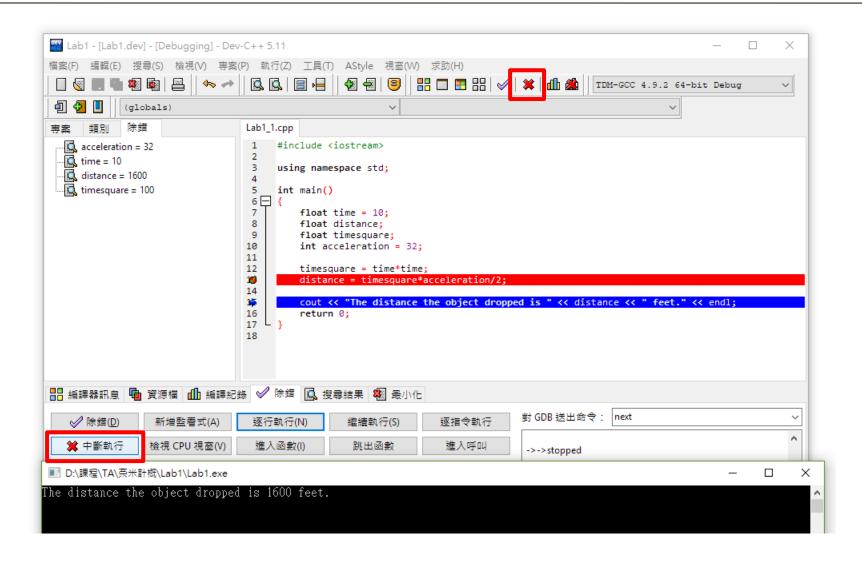


Implement next line





Stop debugging



Cin & Cout

- The extraction operator (>>) brings data from keyboard.
- Example:

```
int age;cout << "Enter your age: ";</li>cin>> age;cout<< age << endl;</li>
```

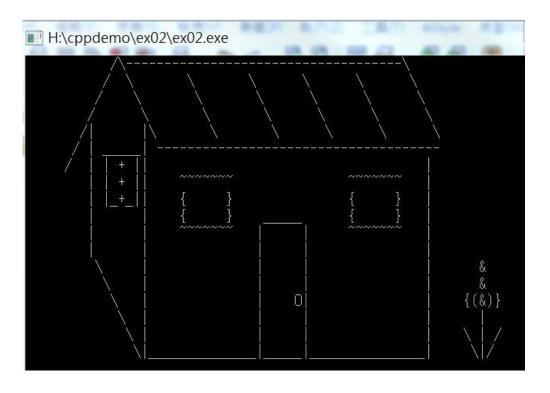
the first value read is stored in age

Exercise 1

- 請於Hour of Code完成一個課程(截圖),並說明該課程的簡要內容;若你不曾寫 過程式,說一下課程讓你對程式有什麼認識?
- 若你曾學過程式,比較一下課程與你的學習經驗的異同。
- 請以word文件繳交至E3。
- Naming rule : studentID_Lab1_1.word

Exercise 2

- 安裝及熟練Dev C++ 5.11免安裝版操作
 - 下載安裝軟體並做好環境設定
 - 使用cout練習輸出如下圖,並仿作再自行設計另一圖。
 - 請熟悉程式編輯器(editor)操作含快捷鍵使用,並學會存檔(請回答會產生那幾個原始檔案)、編譯(compile)、執行(execute)(並觀察又多了那些檔案)?



Exercise 3

- 熟悉Dev C++的除錯
 - 重做課堂講義範例,並多加一段程式可以輸入攝氏溫度,輸出華氏溫度
 - 設定中斷點、增設監看式,觀察程式執行中變數值的變化。

Submission

- Ask TAs for demo
- Upload all your .cpp to new E3
- Naming rule: studentID_Lab1_X.cpp
 - Ex: 309510123_Lab1_1.cpp \ 309510123_Lab1_2.cpp