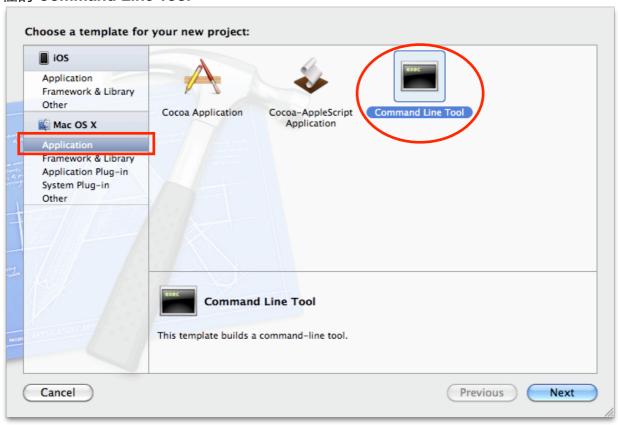
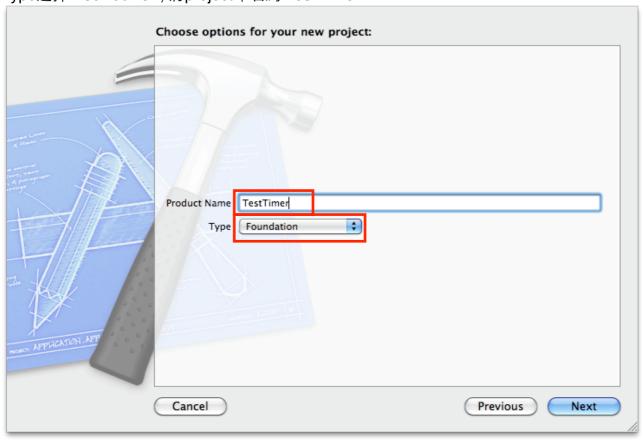
## Lab TestTimer

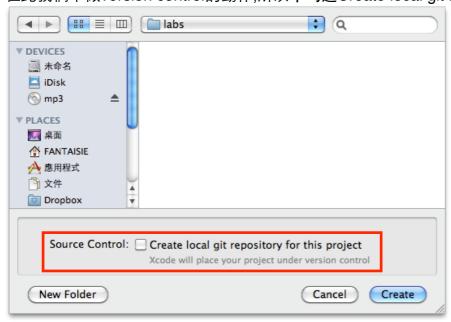
Step 1. 在File > New > New Project開啓一個新的project, 選擇MAC OS X的Application目錄 裡的 **Command Line Tool** 



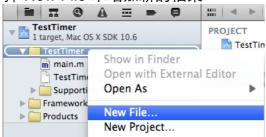
Type選擇 Foundation, 將project命名為 TestTimer



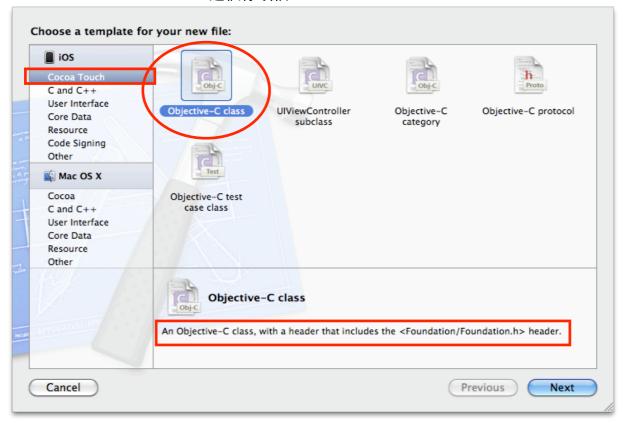
在此我們不做version control的動作,所以不勾選Create local git repository for this project



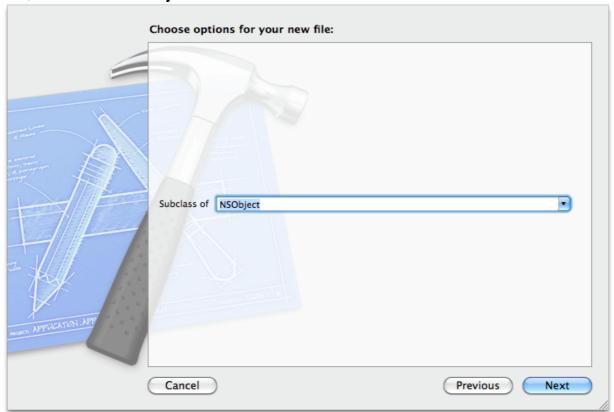
Step 2. 在Xcode左邊Project Navigator 視窗中, 在TestTimer上點右鍵(若無滑鼠ctrl+點擊)選擇 New File 來增加新的檔案



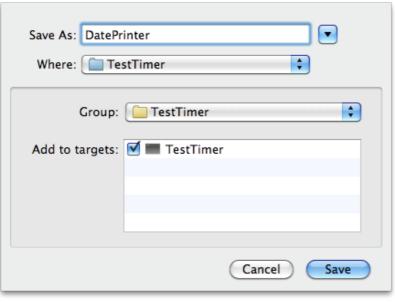
Step 3. 選擇iOS裡的Coca Touch 裡的Objective-C class, 下方有敘述這個class有includes <Foundation/Foundation.h> 這個標頭檔

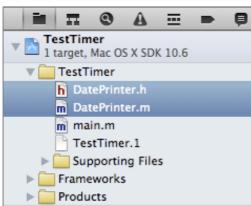


## 選擇Subclass of NSObject



將新增的subclass的File命名為DatePrinter,來產生 DatePrinter.m和 DatePrinter.h





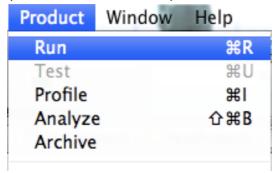
Step 4. 在Xcode左邊 Project Navigator 視窗中,開啓 DatePrinter.m 並加入一個method叫做showDateTime:, 主要是把目前的時間依照hour, minute, second的 Format列印出來

```
#import "DatePrinter.h"
@implementation DatePrinter
-(void)showDateTime:(id) sender{
    NSDate *now = [NSDate date];
    NSDateFormatter *dateFormatter = [[NSDateFormatter alloc] init];
    [dateFormatter setDateFormat:@"hh:mm:ss"];
   NSLog(@"%@", [dateFormatter stringFromDate:now]);
}
@end
Step 5. 開啓main.m, 首先先 #import "DatePrinter.h", 並將印出Hello, World!這行
Mark掉, 並new一個datePrinter, 然後使用NSRunLoop在while迴圈裡去trigger並執行
NSTimer裡的Target的showDateTime:的結果
#import <Foundation/Foundation.h>
#import "DatePrinter.h"
int main (int argc, const char * argv[]) {
   NSAutoreleasePool * pool = [[NSAutoreleasePool alloc] init];
    // insert code here...
    //NSLog(@"Hello, World!");
    DatePrinter * datePrinter = [DatePrinter new];
    NSRunLoop* myRunLoop = [NSRunLoop currentRunLoop];
    [NSTimer scheduledTimerWithTimeInterval:1.0 target:datePrinter
selector:@selector(showDateTime:) userInfo:nil repeats:YES];
    do
    {
           [myRunLoop runUntilDate:[NSDate date]];
    while (1);
    [pool drain];
    return 0;
}
```

## Step 6. Run (第+R)

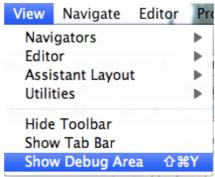
在Xcode主頁左上角按下Run, 或是在Product > Run, 即開始Build code並執行





之後會自動開啓console, 沒開啓的話在右上角View點擊中間的Button, 或是選擇View > Show Debug Area 來開啓





在Console中顯示每個一秒的時間即會列印一次目前時間,如時鐘般的功能

```
GNU gdb 6.3.50-20050815 (Apple version gdb-1518) (Sat Feb 12 02:52:12 UTC 2011)
Copyright 2004 Free Software Foundation, Inc.
GDB is free software, covered by the GNU General Public License, and you are welcome to change it and/or distribute copies of it under certain conditions.
Type "show copying" to see the conditions.
There is absolutely no warranty for GDB. Type "show warranty" for details.
This GDB was configured as "x86_64-apple-darwin".tty /dev/ttys001
[Switching to process 2226 thread 0x0]
2011-04-02 21:47:05.319 TestTimer[2226:903] 09:47:05
2011-04-02 21:47:06.211 TestTimer[2226:903] 09:47:06
2011-04-02 21:47:07.211 TestTimer[2226:903] 09:47:07
2011-04-02 21:47:09.218 TestTimer[2226:903] 09:47:09
2011-04-02 21:47:10.211 TestTimer[2226:903] 09:47:10
```