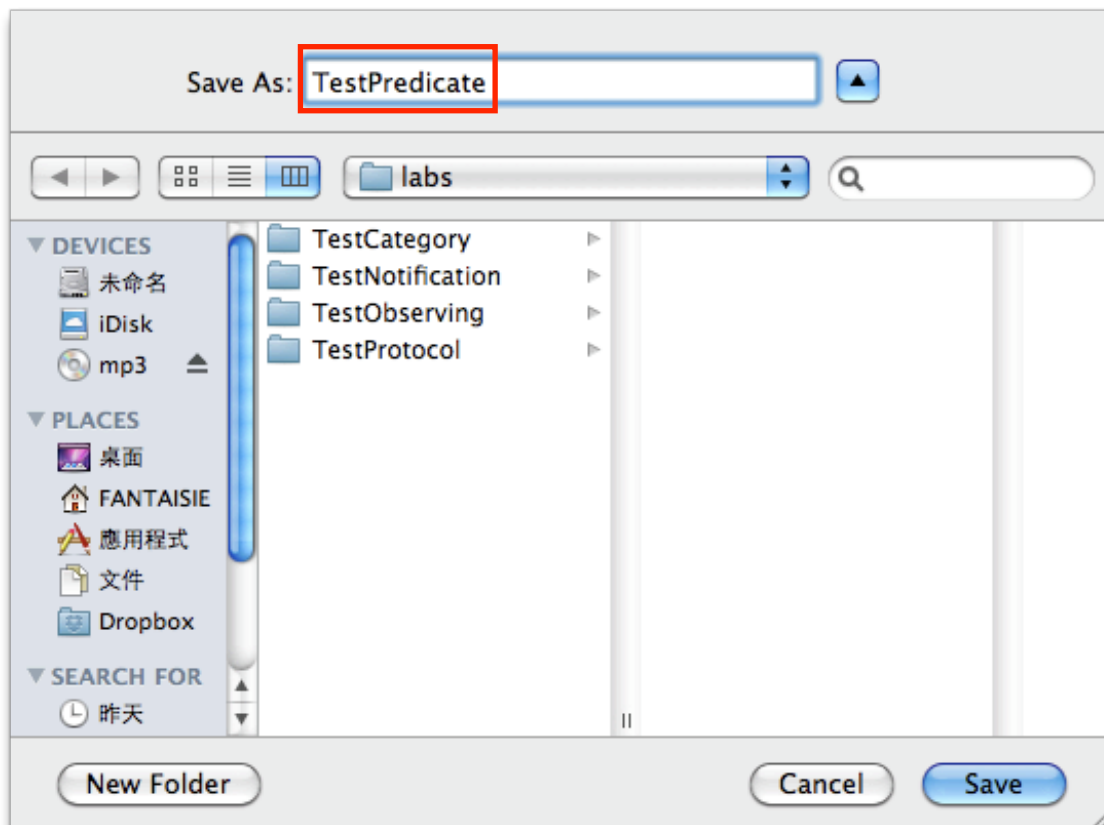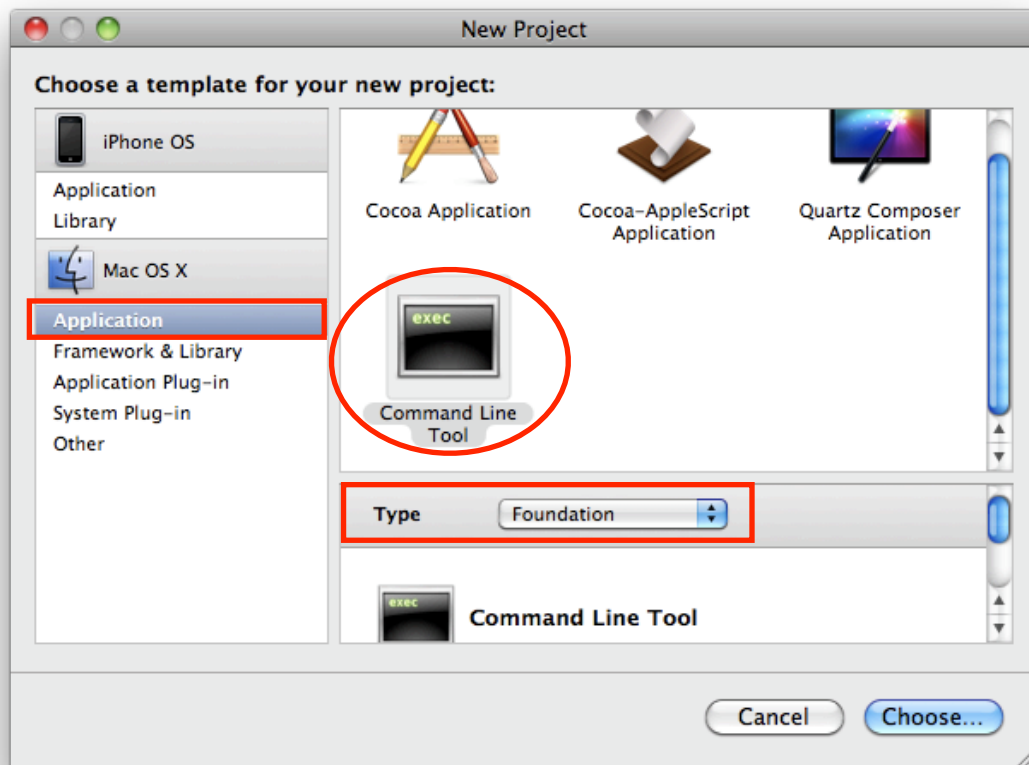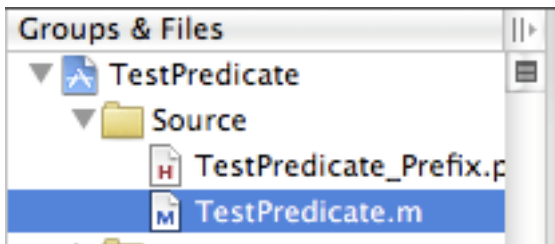# Lab TestPredicate

Step1. 在File開啟一個新的project, 選擇 MAC OS X的Command line Tool, Type選擇 Foundation, 將project命名為 TestPredicate

Step2. 在Xcode左邊Groups & Files 視窗中,開啓Source > TestPredicate.m
先將印出Hello, World!這行Mark掉, 並加入以下的程式,先加入三個NSDictionary car1 car2
car3, 裡面各有車子的廠牌名稱和年份,然後放進一個NSArray裡面, 之後使用NSPredicate去
判斷三台車子裡是否有如需求的brand和year
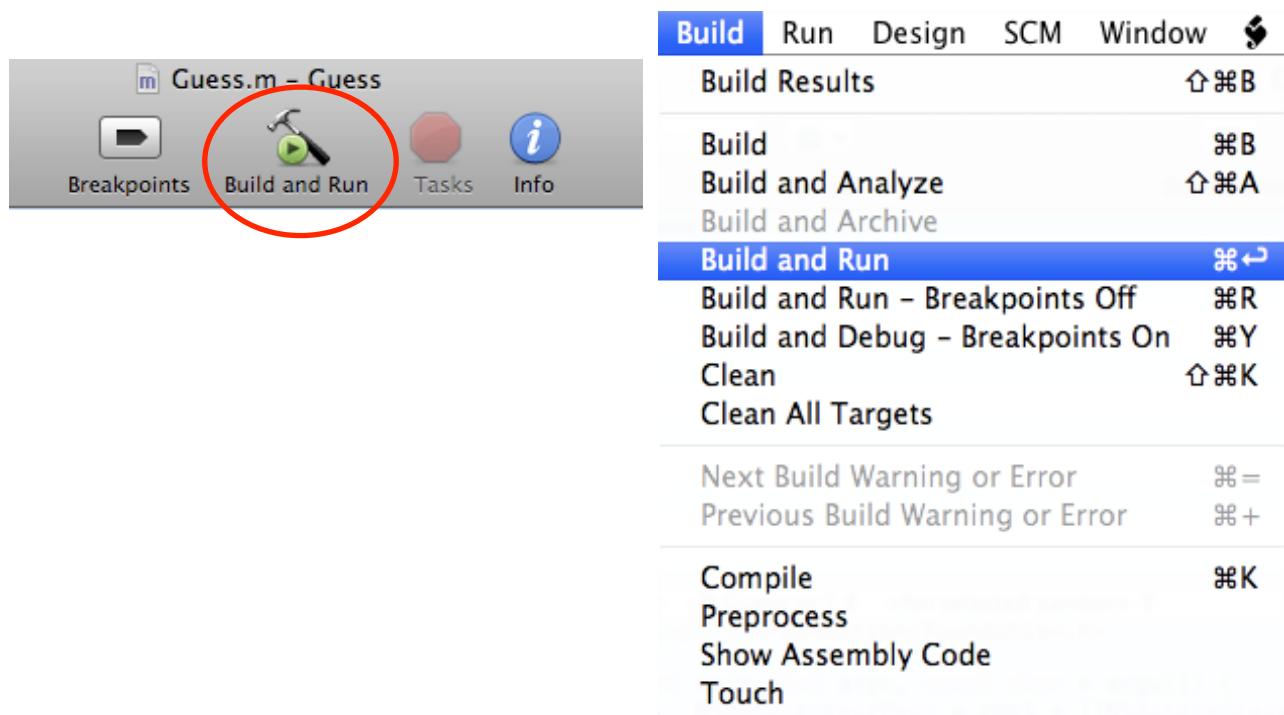


```objc
#import <Foundation/Foundation.h>

int main (int argc, const char * argv[]) {
    NSAutoreleasePool * pool = [[NSAutoreleasePool alloc] init];

    // insert code here...
    //NSLog(@"Hello, World!");
    NSDictionary *car1 = [NSDictionary dictionaryWithObjectsAndKeys:
                                    @"BMW", @"brand", [NSNumber
numberWithInteger:2000], @"year", nil];
    NSDictionary *car2 = [NSDictionary dictionaryWithObjectsAndKeys:
                                    @"Toyota", @"brand", [NSNumber
numberWithInteger:1998], @"year", nil];
    NSDictionary *car3 = [NSDictionary dictionaryWithObjectsAndKeys:
                                    @"Honda", @"brand", [NSNumber
numberWithInteger:2009], @"year", nil];
    NSArray *cars = [NSArray arrayWithObjects:car1, car2, car3, nil];
    NSArray *brands= [NSArray arrayWithObjects:@"Honda", @"Toyota",
nil];
    NSArray *years = [NSArray arrayWithObjects:[NSNumber
numberWithInteger:1995], [NSNumber numberWithInteger:2005], nil];
    NSPredicate *findCar = [NSPredicate predicateWithFormat:@"brand IN
%@ && year BETWEEN %@", brands, years];

    NSArray* foundCar = [cars filteredArrayUsingPredicate:findCar];
    if(foundCar.count > 0)
            NSLog(@"The car(s) found %@", foundCar);
    else
            NSLog(@"No car is found");
    [pool drain];
    return 0;
}
```
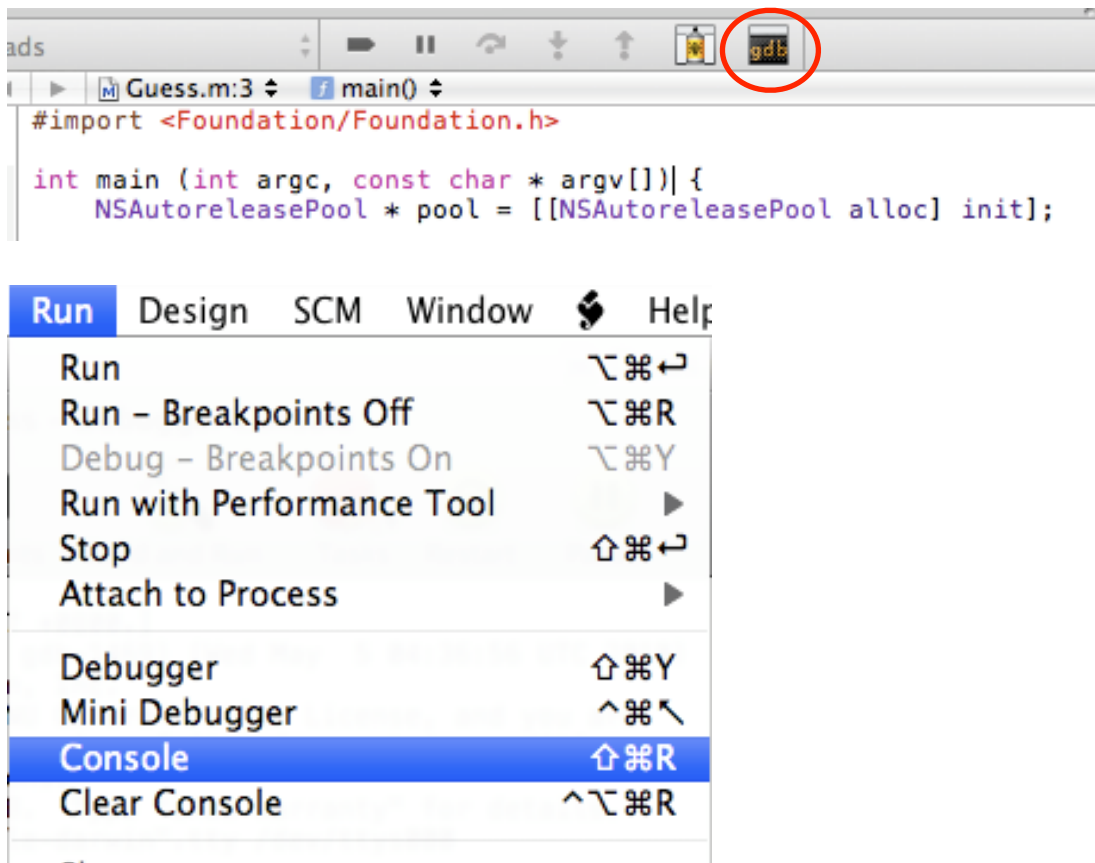
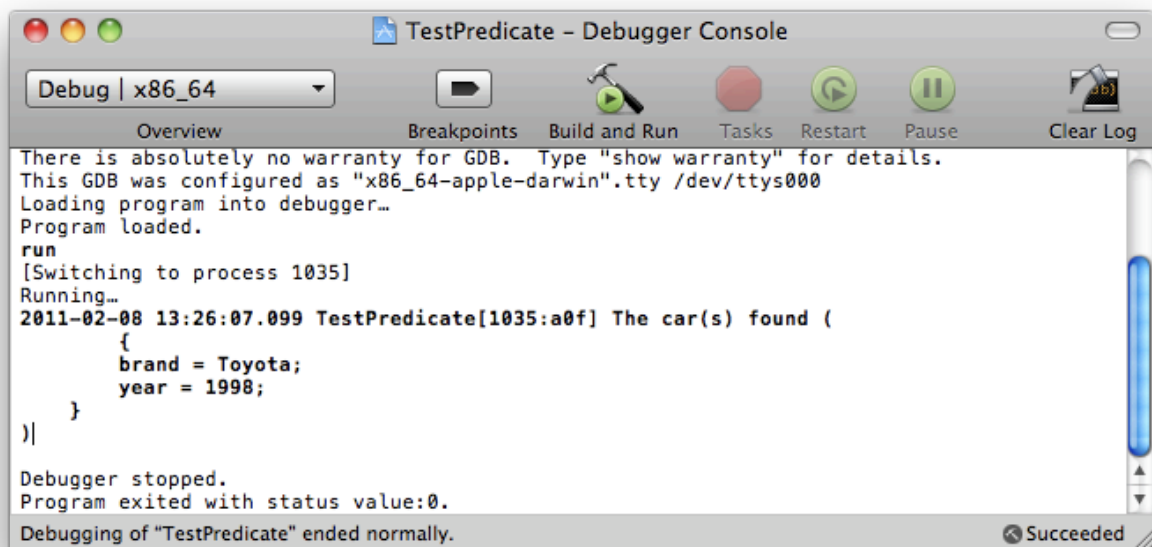Step11. Build and Run (Command + enter)
在Xcode主頁上按下Build and Run, 或是在Build > Build and Run, 即開始Build code並執行.

可在瀏覽程式視窗上方的 gdb 按下來開啟console, 或是在Run > Console來開啟.

在Console中顯示有找到一台車brand為Toyota, year為1998