

## CS121 iOS Tutorial 4

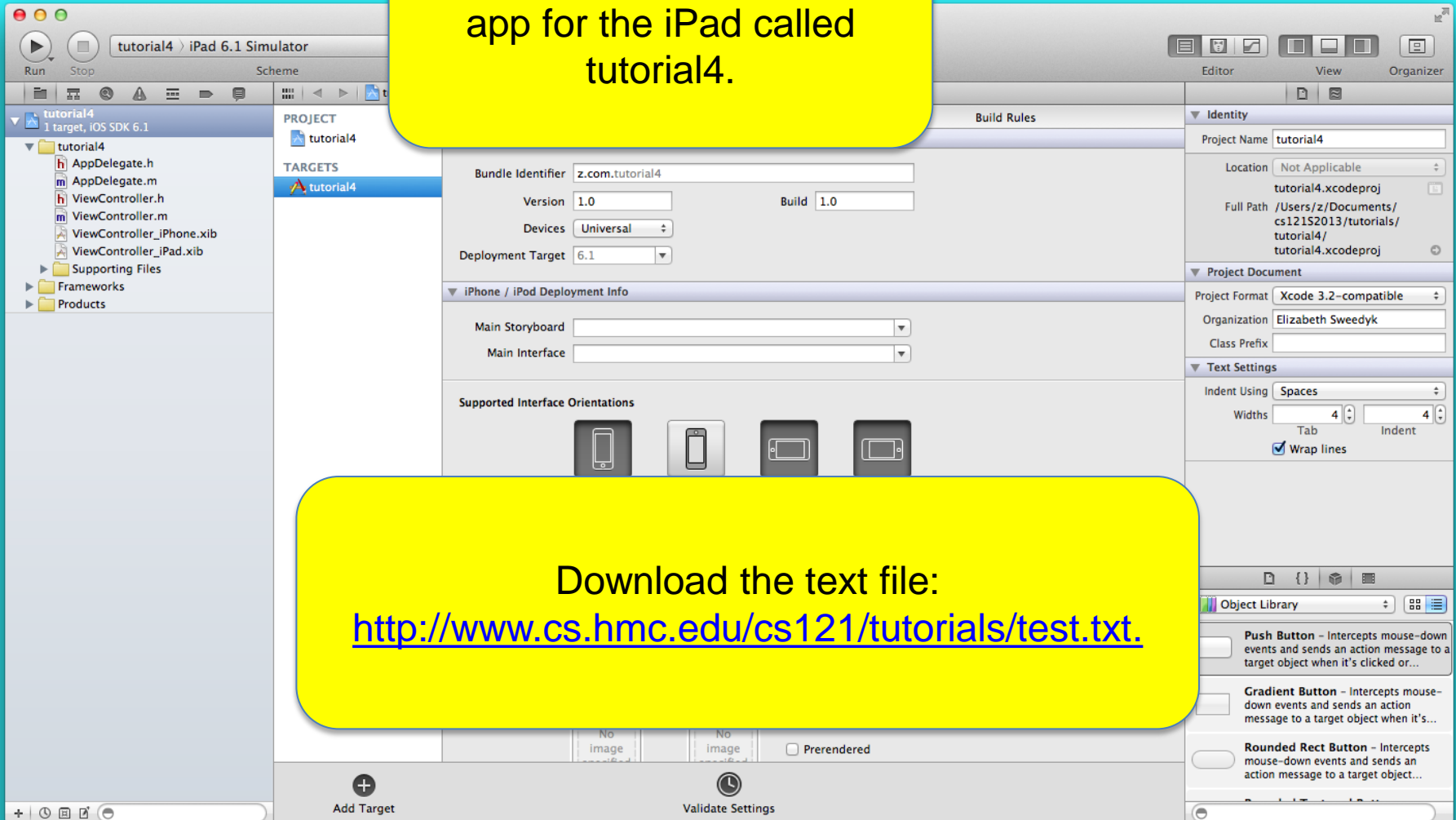
This tutorial provides an introduction file I/O.

Purple bubbles give you information you'll need to know.

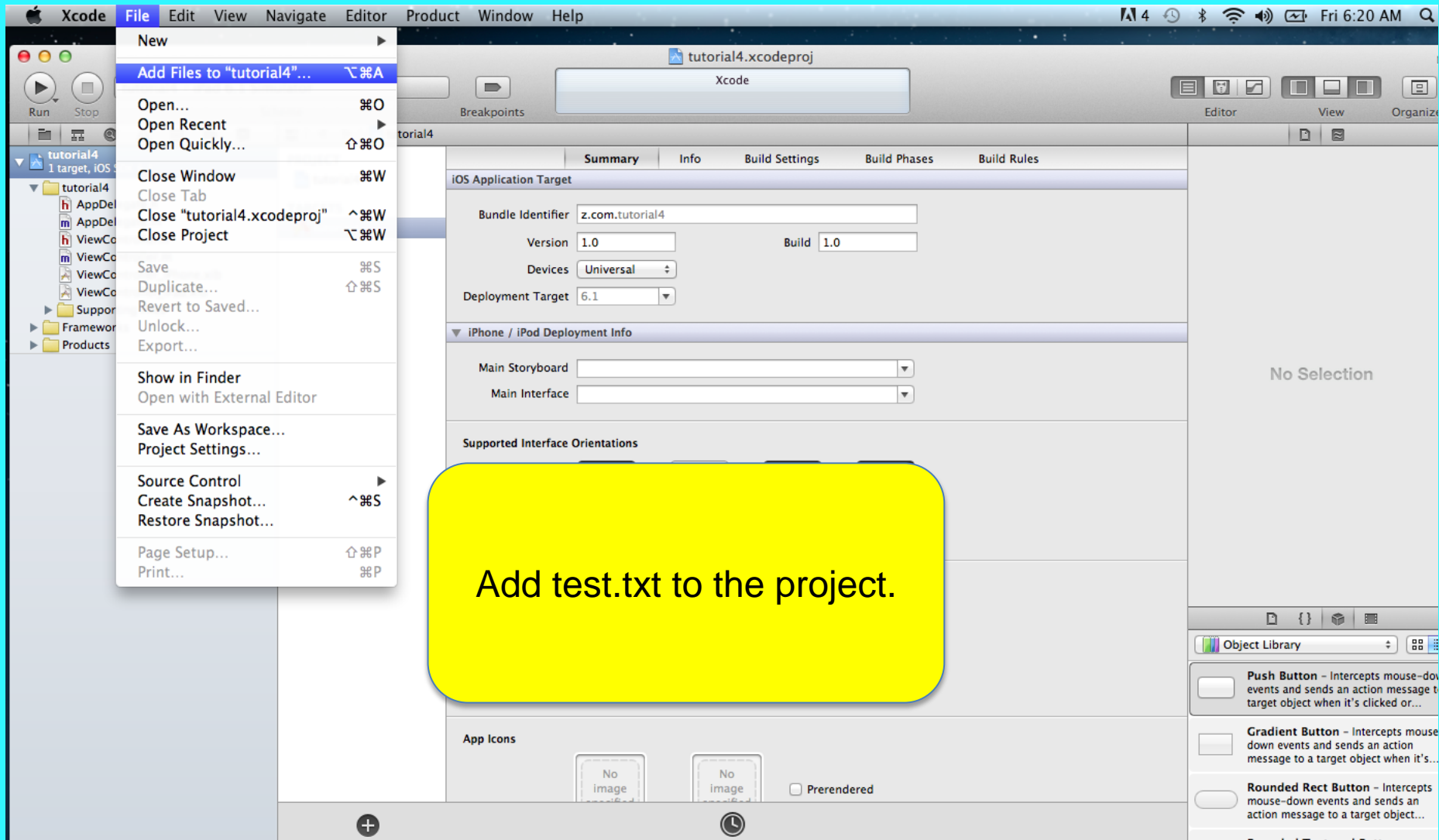
Yellow Bubbles tell you what to do.

Orange bubbles tell you what you're not expected to understand yet. 😊

Create a new single view app for the iPad called tutorial4.

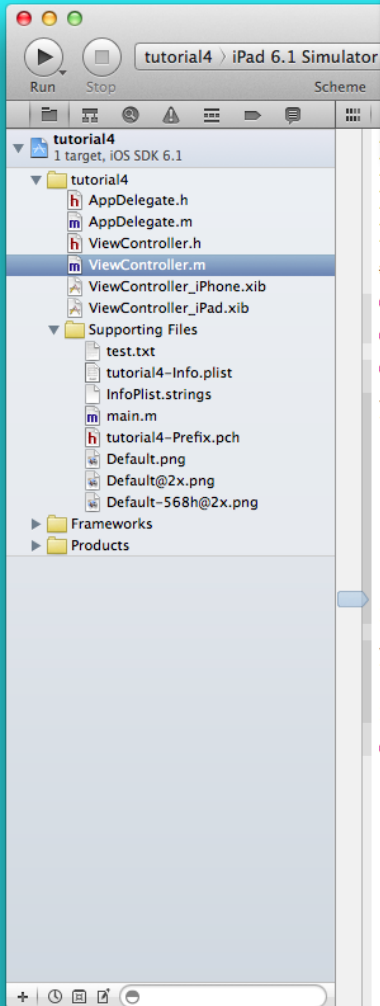


Download the text file:  
<http://www.cs.hmc.edu/cs121/tutorials/test.txt>.



Add test.txt to the project.

Xcode creates a “bundle” of supporting files for your project. By adding test.txt to the project, it becomes part of the bundle. We can search for files within the bundle to get their paths.



```
///
/// Copyright (c) 2013 Elizabeth Sweedyk. All rights reserved.
///

#import "ViewController.h"

@interface ViewController ()

@end

@implementation ViewController

- (void)viewDidLoad
{
    [super viewDidLoad];
    // Do any additional setup after loading the view, typically from a nib.

    NSString* path = [[NSBundle mainBundle] pathForResource:@"test" ofType:@"txt"];
    NSError* error;

    NSString* readString = [[NSString alloc] initWithContentsOfFile:path encoding:NSUTF8StringEncoding error:&error];

    NSLog(@"Read value: %@", readString);
}

- (void)didReceiveMemoryWarning
{
    [super didReceiveMemoryWarning];
    // Dispose of any resources that can be recreated.
}

@end
```

```
///
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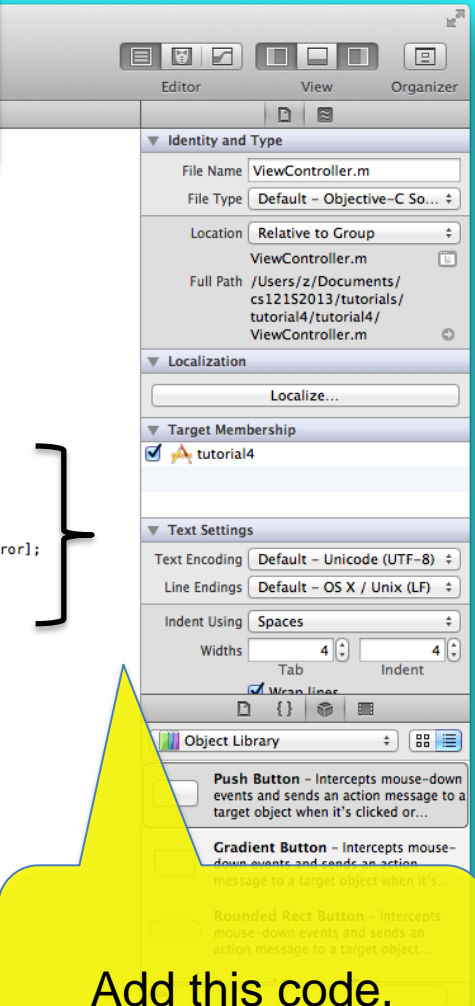
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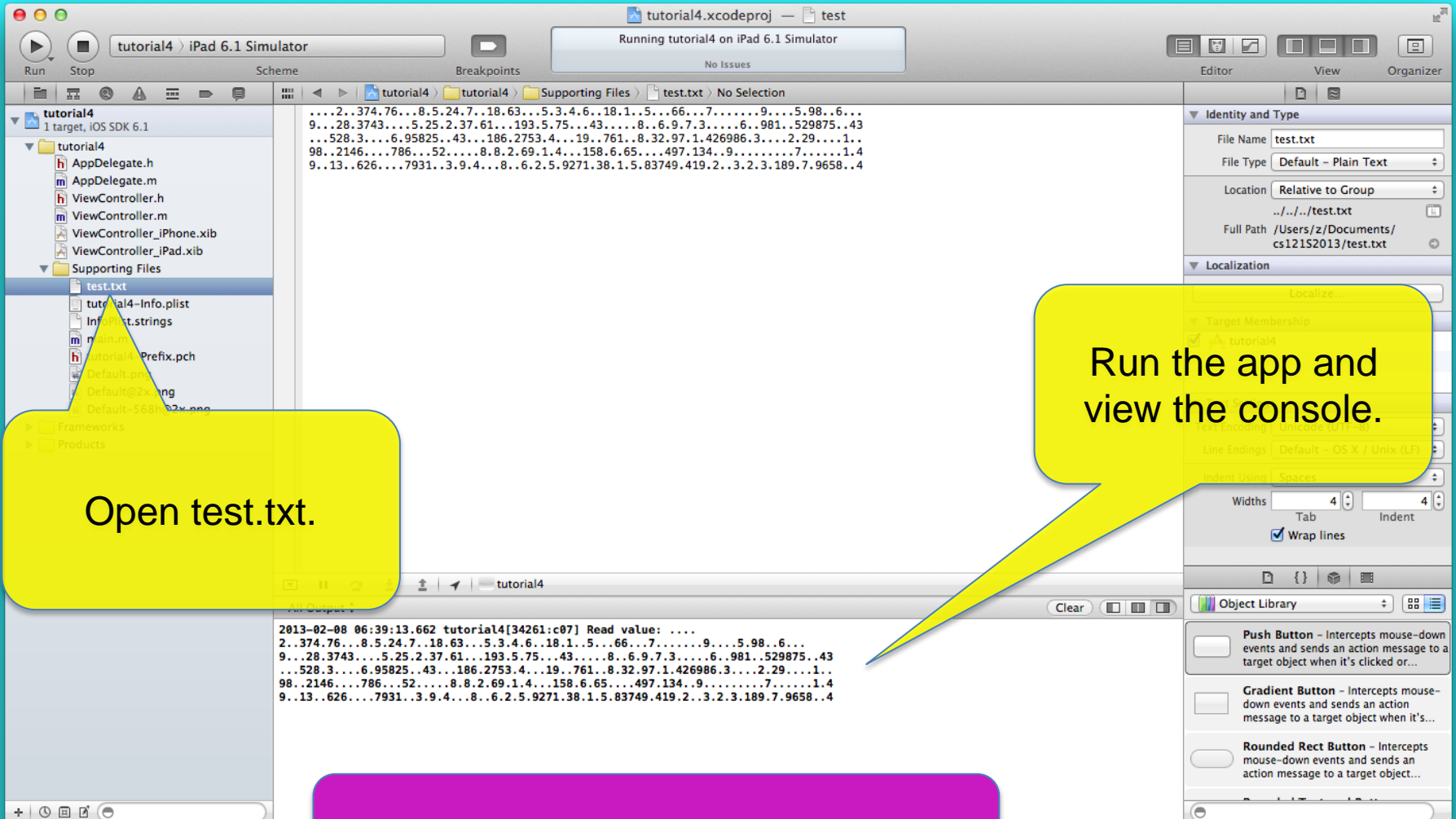
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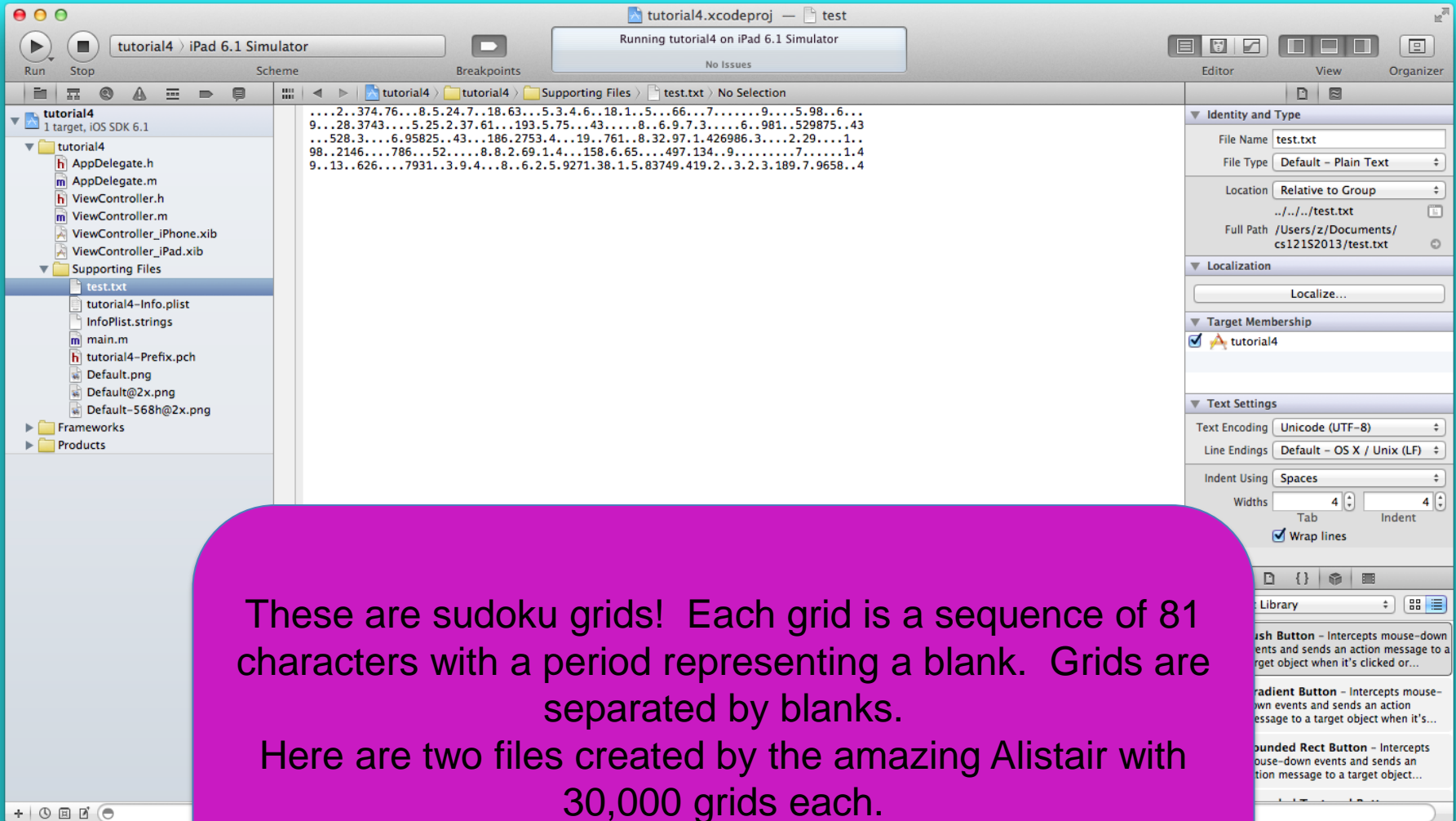
Add this code.



Open test.txt.

Run the app and view the console.

The output should match the input!



These are sudoku grids! Each grid is a sequence of 81 characters with a period representing a blank. Grids are separated by blanks.

Here are two files created by the amazing Alistair with 30,000 grids each.

<http://www.cs.hmc.edu/cs121/tutorials/grid1.txt>

<http://www.cs.hmc.edu/cs121/tutorials/grid2.txt>

Zip up your tutorial and upload it to Sakai.