

1. When using Mapkit's location Services we began each session adding two frameworks to the project. Name them:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (10 points)

2. Writing a simple app to output text called "simpleApp" Write in the code to display "Hey this easier than I thought"

```
#import "simpleApp.h"  
  
@implementation simpleAppViewController  
  
- (IBAction)hello:(id)sender{  
_____ (10 points)
```

3. Looking at - (IBAction)hello:(id)sender; We know that The minus sign "-" means that IBAction is something we call an INSTANCE METHOD. Explain what happens if we put a plus sign "+" as in + (IBAction)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (10 points)

4. Looking at the "hello" instance method from question 3 IBAction)hello:(id)sendr

\_\_\_\_\_ is what is called the returned type. (5 points)  
\_\_\_\_\_ is the method name. (5 points)  
\_\_\_\_\_ is the argument type. (5 points)  
\_\_\_\_\_ is the argument name . (5 points)

5. Looking at the `@property` directive for a `UILabel` and another for the `UIImageView` as follows

```
@property (nonatomic, retain) IBOutlet UILabel *label;  
@property (nonatomic, retain) IBOutlet UIImageView *imageView;
```

Show how you will add the `@synthesize` statement for both the pointers, one for the `UILabel` and another for the `UIImageView` both on the same line in the ".m" file!

---

---

---

---

---

---

---

---

\_\_\_\_\_ (10 points)

6. How do you make a customized icon appear instead of the default one?

---

---

---

---

---

---

---

---

\_\_\_\_\_ (10 points)

```
7. UIAlertActionSheet *actionSheet = [[UIAlertActionSheet alloc]  
initWithTitle:@"Sure you want to delete your CS201 files?"  
delegate:self  
cancelButtonTitle:@"No Way!"  
destructiveButtonTitle:@"Yes, I'm Sure!"  
otherButtonTitles:nil];
```

Looking at the above initializer method that takes a number of parameters. We see that the action sheet's delegate will be notified when a button on that sheet has been tapped. More specifically, the delegate's `actionSheet:didDismissWithButtonIndex:` method will be called.

It does this by passing \_\_\_\_\_ as the delegate parameter, this ensures that your version of `actionSheet:didDismissWithButtonIndex:` will be called. (10 points)

8.

```
(void)applicationDidFinishLaunching:(UIApplication *)application {  
    [window addSubview:tabBarController.view];  
    [self createData];  
}
```

Looking at the above code we see that we're asking a tab controller for its view. We then place it as a subview of \_\_\_\_\_ (5 points)

Explain:

---

---

---

---

---

---

\_\_\_\_\_ (5 points)

9.

```
(NSArray *)states {  
    return [(StatesAppDelegate *)[[UIApplication sharedApplication] delegate]  
            statesByPopulation];  
}
```

Looking at the above view controller that will show data sorted by population. Looking at it more carefully, can you tell what method it invokes?

\_\_\_\_\_ (10 points)