

```
////////// Student //////////
```

```
import Foundation
```

```
let name = "Aaron Anderson"  
let email = "irvingmichael@gmail.com"  
let section = "2015 Summer MW 5:30pm"
```

```
//  
////////// Lab 1 //////////
```

```
class Car {  
    var make: String = ""  
    var model: String = ""  
    var year: Int = 0  
    var gasMileage: Double = 0  
  
    func description() -> String {  
        return "Car - make: \(make), model: \(model), year: \(year), mpg: \  
            (gasMileage)"  
    }  
}
```

```
//  
////////// Lab 2 //////////
```

```
let car1 = Car()  
car1.make = "Prius"  
car1.model = "Hatchback"  
car1.year = 2006  
car1.gasMileage = 48.1
```

```
let car2 = Car()  
car2.make = "Packard"  
car2.model = "Caribbean"  
car2.year = 1953  
car2.gasMileage = 10.8
```

```
let car3 = Car()  
car3.make = "DeLorean"  
car3.model = "DMC-12"  
car3.year = 1983  
car3.gasMileage = 26.9
```

```
let car4 = Car()  
car4.make = "Mobile"  
car4.model = "Weiner"  
car4.year = 1936  
car4.gasMileage = 8.5
```

```
//  
////////// Lab 3 //////////
```

```
println(car1.description())  
println(car2.description())  
println(car3.description())
```

```
println(car4.description())

//
////////// Lab 4 //////////

class Bike {
    var brand: String = ""
    var type: String = ""
    var wheelSize: Double = 0
    var frameSize: Int = 0

    func description() -> String {
        return "Bike - brand: \(brand), type: \(type), Wheel Size: \(wheelSize),
            Frame Size: \(frameSize)"
    }
}

//
////////// Lab 5 //////////

let bike1 = Bike()
bike1.brand = "Giant"
bike1.type = "Trail"
bike1.wheelSize = 27.5
bike1.frameSize = 44

let bike2 = Bike()
bike2.brand = "Specialized"
bike2.type = "Tarmac"
bike2.wheelSize = 27.5
bike2.frameSize = 38

let bike3 = Bike()
bike3.brand = "Starley"
bike3.type = "Penny-farthing"
bike3.wheelSize = 60
bike3.frameSize = 22

let bike4 = Bike()
bike4.brand = "Trek"
bike4.type = "Émonda"
bike4.wheelSize = 27.5
bike4.frameSize = 21

//
////////// Lab 6 //////////

println(bike1.description())
println(bike2.description())
println(bike3.description())
println(bike4.description())

//
////////// Lab 7 //////////

var cars: [Car] = [car1, car2, car3, car4]
```

```
var bikes: [Bike] = [bike1, bike2, bike3, bike4]

//
////////// Lab 8 //////////

for car in cars {
    println(car.description())
}

for bike in bikes {
    println(bike.description())
}
//
```