# **Question 2**

## Classes

* Adult Class – Class to set the name, age, amount paid and selected course of an Adult
* Junior Class - Class to set the name, age, amount paid and selected course of an Adult
* Spinning Class – Class to enrol adults and juniors onto spinning classes
* Yoga Class - Class to enrol adults and juniors onto Yoga classes

### **Adult Class Variables**

* Type String – Adult Name
* Type integer – Adult Age
* Type Integer – AmountPaid. This checks the amount an adult has paid for a course.
* Type String – SelectedCourse. The fitness class selected by the adult.

### **Adult functions**

* Getter function for Adult Name
* Setter function for Adult Name
* Getter function for Adult Age
* Setter function for Adult Age
* Getter function for AmountPaid
* Setter function for AmountPaid
* A constructor method that sets the initial values of Adult Name, Adult age, AmountPaid and SelectedCourse
* To String function for printing variables to string form

### **Junior Class Variables**

* Type String – Junior Name
* Type integer – Junior Age
* Type Integer – AmountPaid. This checks the amount a Junior has paid for a course.
* Type String – SelectedCourse. The fitness class selected by the Junior.

### **Junior functions**

* Getter function for Junior Name
* Setter function for Junior Name
* Getter function for Junior Age
* Setter function for Junior Age
* Getter function for AmountPaid
* Setter function for AmountPaid
* A constructor function that sets the initial values of Junior Name, Junior age, AmountPaid and SelectedCourse
* To String function for printing variables to string form

### **Spinning Class Variables**

* Type String – MembershipType. This can be either gold, bronze or silver
* Type integer – Age

### **Spinner Class functions**

* Adult membership function – Takes an string value as an argument and based on that string value updates the MembershipType variable to either gold bronze or silver.
* Adult SpinningClass function – Takes the integer value. Checks if the integer is greater than 18 and checks the value of the Membership variable to see if it’s Gold, bronze or silver. Returns a string letting the user which course they enrolled on.
* Junior membership function – Takes an integer value as an argument and based on that integer value updates the MembershipType variable to either gold bronze or silver.
* Junior SpinningClass function – Takes the integer value. Checks if the integer is less than 18 and checks the value of the Membership variable to see if it’s Gold, bronze or silver. Returns a string letting the user which course they enrolled on.

### **Yoga Class Variables**

* Type String – MembershipType. This can be either gold, bronze or silver
* Type integer – Age

### **Yoga Class functions**

* Adult membership function – Takes an integer value as an argument and based on that integer value updates the MembershipType variable to either gold bronze or silver.
* Adult YogaClass function – Takes the integer value. Checks if the integer is greater than 18 and checks the value of the Membership variable to see if it’s Gold, bronze or silver. Returns a string letting the user which course they enrolled on.
* Junior membership function – Takes an integer value as an argument and based on that integer value updates the MembershipType variable to either gold bronze or silver.
* Junior YogaClass function – Takes the integer value. Checks if the integer is less than 18 and checks the value of the Membership variable to see if it’s Gold, bronze or silver. Returns a string letting the user which course they enrolled on.