**Testing for Feature 1**

**Corrina Wynne, x12342071**

**Basis Path Testing**

Procedure class

//This procedure computes if the class is at full capacity (20) or not, and if it is not at full capacity, then how many members are in the class.

INTERFACE RETURNS classFull, classSize;

INTERFACE ACCEPTS memberList;

TYPE classFull, memberList is STRING

TYPE classSize is INTEGER

memberList = mem1, mem2, mem3, etc;

classSize = memberList.size;

IF memberList.size = >20

THEN return classFull

ELSE return classSize

ENDIF

END class **Test Paths**

memberList

1

classSize = memberList.size

2

ELSE return classSize

5

IF memberList.size = >20

3

4

THEN return classFull

6

ENDIF

Path 1: 1, 2, 3, 4, 5, 6

Path 2: 1, 2, 5, 6

**Cyclomatic Complexity**

6 - 5 + 2 = 3

**Testing for Feature 2**

**Suzanne Fagan, x12395906**

**Basis Path Testing**

Procedure discount

//This procedure computes the discount to be applied if the gym member is entitled to one.

INTERFACE RETURNS discountAmount, newFee;

INTERFACE ACCEPTS currentFee, discountOf;

TYPE currentFee, discountAmount, newFee, discountOf is INTEGER

currentFee = 350;

discountOf = 10;

currentFee / discountOf \* 100 = discountAmount;

currentFee – discountAmount = newFee;

newFee = 315;

**Test Paths**

END discount

currentFee = 350;

discountOf = 10;

1

currentFee/discountOf

2

3

5

\*100

4

currentFee - discountAmount

discountAmount

newFee

6

Path 1: 1, 2, 3, 4, 5, 6

**Cyclomatic Complexity**

6 – 5 + 2 = 3