**Contract CO1: viewGraphs**

**Operation:**

viewGraphs()

**Cross References:**

Use Cases: View Graphs

**Preconditions:**

User must have some data for System to graph

**Postconditions:**

**-**Several Graph instances were created *(instance creation)*

-The Graphs are representations of the Data *(association formed)*

-The Graphs are displayed on the User Interface

**Contract CO2: Set Activity Goal**

**Operation:**

setNewGoal(goalType, goalValue, goalDate)

**Cross References:**

Use Cases: Set New Activity Goal

**Preconditions:**

-None

**Postconditions:**

**-**A Goal instance was created *(instance creation)*

-The System has assigned the Goal instance a type, value, and end date *(association formed)*

-A Graph instance was created (*instance creation)*

-The Graph is a representation of the Goal (*association formed)*

**Contract CO3: Stop Recording Data**

**Operation:**

stopRecordingData()

**Cross References:**

Use Cases: Stop Recording Data

**Preconditions:**

-The sensor array is recording data

**Postconditions:**

**-**The System ceased to record data *(attribute modification)*

-The System has displayed a confirmation that data is not being recorded

**Contract CO4: Log New Session**

**Operation:**

newSession(name, sensors)

**Cross References:**

Use Cases: Log New Session

**Preconditions:**

- User must have set up the activity tracker by inputting their basic data (height, weight, resting heart rate)

**Postconditions:**

**-**The System has initialized a new session instance (*instance creation)*

-The System has associated the name and sensors to record with to the Session instance (*association formed)*

**Contract CO5: View Data**

**Operation:**

viewData(type)

**Cross References:**

Use Cases: View Data

**Preconditions:**

- User must have some data

**Postconditions:**

**-**The System displayed the data from the Activity Logs (*association formed)*

-The System did not modify the data

**Contract CO6: Input Data**

**Operation:**

inputData(name, value)

**Cross References:**

Use Cases: Input Data

**Preconditions:**

- None

**Postconditions:**

**-**The System created a new Data instance (*instance creation)*

-The System created a new Graph instance *(instance creation)*

-The System populated the Graph instance with the Data instance (*association formed)*