**Use case:** IF…Then Statement

**Primary actor:** computer

**Goal in context:** Allows SIL code to conditionally execute a statement.

**Preconditions:** code is parsed successfully

**Post Condition:** conditional statement is executed or skipped.

**Trigger:** Token containing the reserved word “ IF” is encountered.

**Scenario:**

|  |  |
| --- | --- |
|  | 1. When IF token is encountered event is triggered and the IF..Then method is called. |
|  | 1. All token are assume to be a valid relational expression before the then statement |
|  | 1. Relational expression event is triggered and the expression method is called. |
|  | 1. The Relational expression method returns a Boolean value. |
|  | 1. If Boolean value from step #4 is true than the statement line after the THEN token is executed |
|  | 1. If Boolean value from step #4 is true than the statement line after the THEN token is not executed. |

**Exceptions:**

1.

2. If THEN token is missing than the computer displays a syntax error “incomplete IF THEN Statement” and line #

3. If Relational expression divides by zero than a run time error displayed “Divide by Zero” Line #.

**Priority:**

**When available:**

**Frequency of use:**

**Channel to actor:**

**Secondary actors:**

**Channels to secondary actors:**

**Open issues:**

1.