Omega-Lang Documentation

Label

Labels signify wherever a procedure starts

IF

Starts an if statement. Generally followed by either comparing a variable (x < y, using operators such as =, <>, >=, <=, >, <+, -, etc.) or the following key words:

TANK

Refers to the tank that the player is programming for. The player can either check for

TREADS

Refers to the treads of the player's tank. The player can check to see if the tank treads are FUNCTIONAL or NONFUNCTIONAL.

MOVEMENT

Refers to the movement path of the player's tank. The player can check to see if the path is OBSTRUCTED or CLEAR.

FUEL

Refers to the fuel level of the player's tank. The player can check to see if there is any fuel REMAINING or if their tank is EMPTY.

ENEMY or CLOSEST OBJECT

Refers to any Enemy on the field, or the closest object to the player. This kind of it statement is generally done after the player's tank has detected or scanned an enemy or object. The player can check to see if it is SEEN, UNSEEN, or WITHIN RANGE.

These are then followed by THEN which is then followed by a DO/BRANCH TO

IF ENEMY SEEN THEN DO FOLLOW

IF TANK MOVEMENT CLEAR THEN BRANCH TO GO

MOVE

Moves the tank either FORWARD, BACKWARD, NORTH, SOUTH, EAST, or WEST by an integer amount of units.

MOVE FORWARD 7

SCAN FOR

Scans for either an ENEMY or OBJECT

DETECT

Looks for either an OBSTRUCTION AT or ENEMY AT FRONT, SCANNER, or ANGLE.

DETECT OBSTRUCTION AT FRONT

TURN

Turns the players tank either LEFT, RIGHT, at an ANGLE of an integer amount of degrees, or TO SCANNER.

TURN TO SCANNER

ROTATE

Rotates the player's turret either LEFT or RIGHT by an integer amount of degrees, TO ANGLE of an integer amount of degrees with 0 pointing towards the right, or TO SCANNER (in the direction that something is scanned in).

ROTATE LEFT 1

FIRE AT

Allows the player to fire at either an ENEMY, OBJECT, or OBSTRUCTION

DO/BRANCH TO

Branches to a given label. Generally if a label is wanted to be looped, it will have a BRANCH TO statement after it.

GOODMOVE

SCAN FOR ENEMY
IF ENEMY SEEN THEN DO FOLLOW
DETECT OBSTRUCTION AT FRONT
IF TANK MOVEMENT CLEAR THEN BRANCH TO GO
FIRE AT OBSTRUCTION
FIRE AT OBSTRUCTION
DETECT OBSTRUCTION AT FRONT
IF TANK MOVEMENT CLEAR THEN BRANCH TO GO
ROTATE LEFT 1
BRANCH TO GOODMOVE //the branch statement that loops the //procedure is here