Functions of Utility (easy) Command Handler(11/07/22)

( GetData Class )

1. GetElem—Command -26 – Not needed – use getSelectedElements()
2. Input Params – One – enter Element type as in API\_WallID
3. Returns – Element Guid in String Form
4. Must click on the element type Specified
5. GetValue—Command - 26
6. Input Params –Two– Element guid in String form & Property Name – in that order
7. Returns -- Value in String Form
8. GetParams – Command - 26
9. Input Params – One – element guid in string form
10. Returns – Element Parameters in list form- Name & Value & Autotext key;
11. Must click on Type of and the element desired
12. GetProjInfo – Command - 26
13. Input Params – [‘None’]
14. Returns – Project Data --Text#, key name &value in list
15. Auto Completes
16. GetPoint – Command – 26
17. Input Params – [‘None’]
18. Click on point in plan
19. Returns x &y points in String form in a list
20. GetSelected – Command - 26
21. Input Params – [‘None’]
22. Must pre-select Elements before hand
23. Return – Guids ,layer, floor name, elemID, & type of Elements in the order selected in a list.
24. Returns Array for each element –[ Guid , Layer, Floor, Element ID, Element Type]
25. SetProjInfo – Command -26
26. Input Params - Two – Property Name then Value
27. Returns – success or fail
28. For Project Info Only- Project Info Names are in all caps & no spaces
29. Overwrites existing keys only
30. GetProjValue – Command - 26
31. Input Params – one – Property Name
32. Returns – ProjectName & Value in String form in a list
33. Input must be in string form =See Keys above
34. GetValueFromGuid – Command -26 – Not Needed – use GetValue
35. Input Params – two- Guid (use string) and AutoText property Key Name (string)
36. Returns Property Value. Must have previous Guid of relevant Element
37. Guid and Key are in String Form – key is the same as in Archicad Labels
38. GetElemList – Command - 26
39. Input Params – one – Element Type i.e. API\_LabelID or API\_TextID
40. Returns Guid list of Elements of specified Type in a list.
41. Returns Only Types not available to Python API such as Label and Text.
42. Use native Python Functions for supported Types.
43. Label returns guid of label/text, guid of attached object, Text, [Element ID of Object, Object Type] -associated label only
44. Warning – works only with autotext label – will throw exception with other labels – need revised to onlyget selected
45. SetLabelText – Command - 25
46. Input Params – Four – Label Guid,’API\_LabelID, AutoText Property Key ( include <PROPERY-key>)(string),fontsize(string)
47. Returns Success or Fail
48. For Existing Associated AutoText labels only (API\_LabelID)
49. Changes selected AutoText Label values
50. To set a AutoText label value – you must first use the <> key for the value.
51. Use GetAutoText with FALSE to obtain the <> key or list with GetParams
52. GetAutoText – Command - 26
53. Input Params – Guid of Associated Label and Label status (TRUE/FALSE)
54. Returns Value or AutoText Property Key of selected Label
55. For Associated AutoText Labels only (API\_LabelID)
56. TRUE returns value; FALSE Returns Property Key of value
57. ChangeText – Command
58. Input Params – Text Box Guid in String Form, ‘API\_TextID’, new text.
59. Changes Text Label – can not exceed 254 char; \n is permissible.
60. Text Boxes only (API\_TextID)
61. CreateText – Command – 26 (Font Size???)
62. Input – Text and font size in mm, x point, y point in str
63. Creates text box label (API\_TextID) at the input Point (use GetPoint0
64. Needs to be revised to input font , bg, pen, etc.
65. CreateLabel\_Associative – Command - 26
66. Input – String or key, font size(string)mm
67. Click on selected element, then first, mid, last arrow points
68. Can use Keys
69. ChangeLabelText – Command - Does not work properly
70. Input – two – guid & text
71. Changes the text of a selected label
72. For API\_LabelID’s
73. Deprecated = Use SetLabelText
74. GetQuantity – Command - 26
75. Input Params – Three – Element Guid, Element Type i.e. API\_WallID, value name
76. Gets quantity values from selected Element.
77. Value name must be as listed in API Quantity Structure. (lower case – check API for name spelling) i.e. API\_WallQuanity etc.
78. For Walls, Slabs, Doors & Windows Only.
79. CalcQuantities – Command - 26
80. Input – two – guid, elem type
81. Returns – quantities, composites & guids of composites
82. Not all Element types included
83. CalcComponentQuantities – Command -26
84. Input – one - guid
85. Returns – Properties of the Elements Components
86. Not All Elements included
87. GetComponets – Command - 26
88. Input – one - guid
89. Returns – Guids of Elements Components
90. CreateLabel\_Associative – Command – See 15 – use 15
91. Input – two - text & fontsize(string)
92. Click on a Element and second, third points for arrow.
93. Returns success – no error checking
94. Creates a associative label – can use text or property keys
95. If line returns are embedded, must double click on label to re-size text box(bug).
96. ChangeCatCode – Command =26
97. Input – two – Zone guid and zone category name to change the zone to
98. Use GetSelected to get guid of zone to be changed
99. GetBMAtt -Command -26
100. Input – one – name of Building Material attribute
101. Returns a list of all user defined properties for that BM Attribute
102. SetMSG – Command – 26
103. Input – one – Text Message
104. Uses alert box – No Scrolls – If message is too long, will be off screen
105. GetDialog - Command -26
106. Input One – Text Message- recognizes line returns
107. Uses standard Archicad Text box with Scrolls.
108. Font size not available – bug
109. GetLineLength – 26
110. Input One – guid of polyline
111. Return coordinate of a polyline – only straight segments
112. Use to calculate escape exit length.
113. GetBMProperties
114. Input Guid, Object type
115. Return Components
116. Only for walls, slabs, roofs
117. GetInfo
118. Input Guid
119. Returns Element ID
120. GetWallRef -26
121. Input Guid of a window or Door
122. Returns Guid of owner Wall
123. LibPart(command) GetParams(Class)
124. Input one – Object Guid
125. Returns listing of object parameters in list(s) of parameter Name, Value(string), Type
126. ChangeLibPart(command) GetParams(Class)
127. Input four – object Guid, parameter name, value, Type (string, int, real)
128. No return
129. Arrays not handled