

```

1  función para leer información de la plantilla.
2  defun C:HERPLANT ()
3  {setq plantilla (open (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\Plantilla.tet") "r")}
4  {setq atributototal 1}
5
6  {setq reofut (read-line plantilla)}
7
8
9  (while (/= (/= reofut nil) nil)
10   {setq reofut (read-line plantilla)}
11   {setq atributototal (+ atributototal 1)}
12 )
13 {setq plantilla (open (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\Plantilla.tet") "r")}
14 {setq renglon 1}
15 {setq resect ""}
16 {setq ch 1}
17
18 {setq reofut (read-line plantilla)}
19 {setq infoPlantilla (vlax-make-safearray vlax-vbString (cons 1 (- atributototal 1)) (cons 1 4))}
20
21 (while (/= (/= reofut nil) nil)
22   {setq resect reofut}
23   (repeat (strlen resect)
24     [if (= (substr resect ch 1) " ")
25       (progn
26         {setq infoPlant (substr resect (+ ch 4))}
27         (vlax-safearray-put-element infoPlantilla renglon 1 (substr resect 3 (- ch 1)))
28         (vlax-safearray-put-element infoPlantilla renglon 2 (substr infoPlant 1 1))
29         (vlax-safearray-put-element infoPlantilla renglon 3 (substr infoPlant 2 1))
30         (vlax-safearray-put-element infoPlantilla renglon 4 (substr infoPlant 5 1))
31       )
32     ]
33     {setq ch (+ ch 1)}
34   )
35   {setq renglon (+ renglon 1)}
36   {setq ch 1}
37   {setq reofut (read-line plantilla)}
38 )
39 }
40
41 función obtenida de internet para leer fácilmente archivos de excel.
42 defun C:GetCells ()
43 {defun getCellsFunction(filename sheetName cellName / myxl mybook mySheet myRange cellIndex)
44 {setq myxl(vlax-get-or-create-object "Excel.Application")}
45 (vla-put-visible myxl :visible-false)
46 (vla-put-property myxl "DisplayAlerts" :value-false)
47 {setq mybook (vl-catch-all-apply 'vla-open (list (vlax-get-property myxl "Workbooks") filename))}
48 {setq mySheet (vl-catch-all-apply 'vla-open (list (vlax-get-property mybook "Sheets") sheetName))}
49 (vla-invoke-method mySheet "Activate")
50 {setq myRange (vlax-get-property (vlax-get-property mySheet "Cells") "Range" cellName)}
51 {setq cellValue(vlax-varSet-value (vlax-get-property myRange "Value2"))}
52 (vl-catch-all-apply 'vla-invoke-method (list mybook "Close"))
53 (vl-catch-all-apply 'vla-invoke-method (list myxl "Quit"))
54 [if (not (vlax-object-released-p myRange))(progn(vlax-release-object myRange)(setq myRange nil))]
55 [if (not (vlax-object-released-p mySheet))(progn(vlax-release-object mySheet)(setq mySheet nil))]
56 [if (not (vlax-object-released-p mybook))(progn(vlax-release-object mybook)(setq mybook nil))]
57 [if (not (vlax-object-released-p myxl))(progn(vlax-release-object myxl)(setq myxl nil))]
58 (if (= "safearray" (type cellValue))
59 (progn
60 {setq tempCellIndex(vlax-safearray-1list cellValue)}
61 {setq cellValue(list)}
62 [if(= (length tempCellValue) 1)
63 (progn
64 {foreach a tempCellIndex
65 [if(= (type a) 'LIST)
66 (progn
67 {foreach b a
68 [if(= (type b) 'LIST)
69 {setq cellValue(append cellValue (list (vlax-variant-value (car b))))}
70 {setq cellValue(append cellValue (list (vlax-variant-value b)))}
71 }
72 }
73 }
74 {setq cellValue(append cellValue (list (vlax-variant-value a)))}
75 }
76 }
77 }
78 (progn
79 {foreach a tempCellIndex
80 {setq tempList(list)}
81 {foreach b a
82 {setq temp(vlax-variant-value b)}
83 {setq tempList(append tempList (list temp))}
84 }
85 {setq cellValue(append cellValue tempList)}
86 }
87 }
88 }
89 }
90 cellValue
91 }
92 }
93 }
94
95 función para leer archivo separado por coma y dibujar sala CAD.
96 defun C:ASC ()
97 {setq plantilla (open (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\ASC.txt") "r")}
98 {setq elementos 1}
99 {setq reofut (read-line plantilla)}
100
101 (while (/= (/= reofut nil) nil)
102   {setq reofut (read-line plantilla)}
103   {setq elementos (+ elementos 1)}
104 )
105
106 {setq mesacoma (open (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\ASC.txt") "r")}
107 {setq nf -1}
108 {setq resect ""}
109 {setq ch 1}
110 {setq ci 1}
111 {setq renglon 1}
112 {setq atributos 1}
113 {setq infocomas (vlax-make-safearray vlax-vbString (cons 1 (- elementos 1)) (cons 1 (- atributototal 1)))}
114
115 {setq reofut (read-line mesacoma)}
116 (while (/= (/= reofut nil) nil)
117   {setq resect reofut}
118   (repeat (strlen resect)
119     [if (= (substr resect ch 1) ",")
120       (progn
121         (vlax-safearray-put-element infocomas renglon atributos (substr resect ci (- ch ci)))
122         {setq ci (+ ch 1)}
123         {setq atributos (+ atributos 1)}
124         {setq ch (+ ch 1)}
125       )
126       {setq ch (+ ch 1)}
127     ]
128     [if (= (substr resect) "\n")
129       (vlax-safearray-put-element infocomas renglon atributos (substr resect ci (+ (- ch ci) 1)))
130     ]
131   )
132   {setq atributos 1}
133   {setq ci 1}
134   {setq renglon (+ renglon 1)}
135   {setq ch 1}
136   {setq nf (+ nf 1)}
137   {setq reofut (read-line mesacoma)}
138 )
139 }
140 }
141
142 {setq nombres (vlax-make-safearray vlax-vbString '(1 . 6))}
143
144 (vlax-safearray-put-element nombres 1 "Casademol.dwg")
145 (vlax-safearray-put-element nombres 2 "Monitori.dwg")
146 (vlax-safearray-put-element nombres 3 "Phone.dwg")
147 (vlax-safearray-put-element nombres 4 "House.dwg")
148 (vlax-safearray-put-element nombres 5 "Tecladot.dwg")
149 (vlax-safearray-put-element nombres 6 "Sillat.dwg")
150
151 {setq j 0}
152 {setq k 5000}
153 (repeat 4
154   {setq i 1}
155   (repeat (- elementos 1)
156     {setq cordx (vlax-safearray-get-element infocomas 1 2)}
157     {setq cordy (vlax-safearray-get-element infocomas 1 3)}
158     {setq cordz (vlax-safearray-get-element infocomas 1 4)}
159     {setq cordon (+ (read cordx) j)}
160     {setq cordx (rtos cordon 2 4)}
161     (command "insert" (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\") (vlax-safearray-get-element nombres 1) (strcat cordx "," cordy) "1" "1" "")
162     {setq i (+ i 1)}
163   )
164   {setq mesal (strcat (rtos j 2 6) "," (rtos 0 2 6))}
165   {setq mesaf (strcat (rtos (+ j 1200) 2 4) "," (rtos k 2 6))}
166   (command "rectang" mesal mesaf "")
167   {setq j (+ j 1200)}
168 }
169 {setq esp1 (strcat (rtos (+ j 400) 2 6) "," "R")})
170 {setq esp2 (strcat (rtos (+ j 400) 2 6) "," "R")})
171 (command "mirror" (sget "A") "" "0,500" "10,500" "No")
172 (command "mirror" (sget "A") "" esp1 esp2 "No")
173 (command "mirror" (sget "A") "" "0,1500" "30,1500" "No")
174
175 }
176
177 función para leer archivo separado por espacios y dibujar sala CAD.
178 defun C:ASB ()
179 {setq archivosesp (open (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\ASB.txt") "r")}
180 {setq elementos 1}
181
182 {setq reofut (read-line archivosesp)}
183
184 (while (/= (/= reofut nil) nil)
185   {setq reofut (read-line archivosesp)}
186   {setq elementos (+ elementos 1)}
187 )
188
189 {setq mesasespacio (open (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\ASB.txt") "r")}
190 {setq nf -1}
191 {setq resect ""}
192 {setq ch 1}
193 {setq ci 1}
194 {setq renglon 1}
195 {setq atributos 1}
196 {setq infoespacio (vlax-make-safearray vlax-vbString (cons 1 (- elementos 1)) (cons 1 (- atributototal 1)))}
197
198 {setq reofut (read-line mesasespacio)}
199 (while (/= (/= reofut nil) nil)
200   {setq resect reofut}
201   (repeat (- atributototal 1)
202     [if (= "C" (vlax-safearray-get-element infoPlantilla atributos 1))
203       (vlax-safearray-put-element infoespacio renglon atributos (vl-string-right-trim " " (substr resect ci (length))))
204       (vlax-safearray-put-element infoespacio renglon atributos (vl-string-left-trim " " (substr resect ci (length))))
205     ]
206     [setq ci (+ ci (length))]
207     {setq atributos (+ atributos 1)}
208   )
209   {setq atributos 1}
210   {setq ci 1}
211   {setq renglon (+ renglon 1)}
212   {setq ch 1}
213   {setq reofut (read-line mesasespacio)}
214 )
215
216 {setq nombres (vlax-make-safearray vlax-vbString '(1 . 6))}
217
218 (vlax-safearray-put-element nombres 1 "Casademol.dwg")
219 (vlax-safearray-put-element nombres 2 "Monitori.dwg")
220 (vlax-safearray-put-element nombres 3 "Phone.dwg")
221 (vlax-safearray-put-element nombres 4 "House.dwg")
222 (vlax-safearray-put-element nombres 5 "Tecladot.dwg")
223 (vlax-safearray-put-element nombres 6 "Sillat.dwg")
224
225 {setq j 0}
226 {setq k 5000}
227 (repeat 4
228   {setq i 1}
229   (repeat (- elementos 1)
230     {setq cordx (vlax-safearray-get-element infoespacio 1 2)}
231     {setq cordy (vlax-safearray-get-element infoespacio 1 3)}
232     {setq cordz (vlax-safearray-get-element infoespacio 1 4)}
233     {setq cordon (+ (read cordx) j)}
234     {setq cordx (rtos cordon 2 6)}
235     (command "insert" (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\") (vlax-safearray-get-element nombres 1) (strcat cordx "," cordy) "1" "1" "")
236     {setq i (+ i 1)}
237   )
238   {setq mesal (strcat (rtos j 2 6) "," (rtos 0 2 6))}
239   {setq mesaf (strcat (rtos (+ j 1200) 2 4) "," (rtos k 2 6))}
240   (command "rectang" mesal mesaf "")
241   {setq j (+ j 1200)}
242 }
243 {setq esp1 (strcat (rtos (+ j 400) 2 6) "," "R")})
244 {setq esp2 (strcat (rtos (+ j 400) 2 6) "," "R")})
245 (command "mirror" (sget "A") "" "0,500" "10,500" "No")
246 (command "mirror" (sget "A") "" esp1 esp2 "No")
247 (command "mirror" (sget "A") "" "0,1500" "30,1500" "No")
248
249 }
250
251 función para leer archivo de excel y dibujar sala CAD.
252 defun C:ASXL ()
253 {C:GetCells}
254 {setq atributototal elementos}
255 {setq elementos 7}
256 {setq infoExcel (vlax-make-safearray vlax-vbString (cons 1 (- elementos 1)) (cons 1 (- atributototal 1)))}
257
258 {setq cellrange (strcat "A1:" (chr (+ 63 atributototal)) (rtos (- elementos 1) 2 6))}
259
260 {setq renglon 1}
261 {setq atributos 1}
262 {setq cont 0}
263 (repeat (- elementos 1)
264   {setq i (- atributototal 1)}
265   (vlax-safearray-put-element infoExcel renglon atributos (cont cont infoexp))
266   {setq atributos (+ atributos 1)}
267   {setq cont (+ cont 1)}
268 )
269 {setq atributos 1}
270 {setq renglon (+ renglon 1)}
271 }
272
273 {setq nombres (vlax-make-safearray vlax-vbString '(1 . 6))}
274
275 (vlax-safearray-put-element nombres 1 "Casademol.dwg")
276 (vlax-safearray-put-element nombres 2 "Monitori.dwg")
277 (vlax-safearray-put-element nombres 3 "Phone.dwg")
278 (vlax-safearray-put-element nombres 4 "House.dwg")
279 (vlax-safearray-put-element nombres 5 "Tecladot.dwg")
280 (vlax-safearray-put-element nombres 6 "Sillat.dwg")
281
282 {setq j 0}
283 {setq k 5000}
284 (repeat 4
285   {setq i 1}
286   (repeat (- elementos 1)
287     {setq cordx (vlax-safearray-get-element infoExcel 1 2)}
288     {setq cordy (vlax-safearray-get-element infoExcel 1 3)}
289     {setq cordz (vlax-safearray-get-element infoExcel 1 4)}
290     {setq cordon (+ (read cordx) j)}
291     {setq cordx (rtos cordon 2 6)}
292     (command "insert" (strcat (findfile "Archivos_salaCAD_David_Aguirre") "\\") (vlax-safearray-get-element nombres 1) (strcat cordx "," cordy) "1" "1" "")
293     {setq i (+ i 1)}
294   )
295   {setq mesal (strcat (rtos j 2 6) "," (rtos 0 2 6))}
296   {setq mesaf (strcat (rtos (+ j 1200) 2 4) "," (rtos k 2 6))}
297   (command "rectang" mesal mesaf "")
298   {setq j (+ j 1200)}
299 }
300 {setq esp1 (strcat (rtos (+ j 400) 2 6) "," "R")})
301 {setq esp2 (strcat (rtos (+ j 400) 2 6) "," "R")})
302 (command "mirror" (sget "A") "" "0,500" "10,500" "No")
303 (command "mirror" (sget "A") "" esp1 esp2 "No")
304 (command "mirror" (sget "A") "" "0,1500" "30,1500" "No")
305
306 }
307
308 función de ejecución del programa principal.
309 defun C:SALA3D ()
310 {eliminar lo escrito anteriormente.
311 (command "erase")
312
313 (command "erase" (sget "a") "")
314
315 (command "regen")
316
317 (c:USERPLANT)
318 {setq pref (getstring "Elegir preferencia de archivos: coma, espacio o excel.")}
319 [if (= (strcase pref T) "coma")
320 (progn
321   (c:ASC)
322 )
323 [if (= (strcase pref T) "espacio")
324 (progn
325   (c:ASB)
326 )
327 [if (= (strcase pref T) "excel")
328 (progn
329   (c:ASXL)
330 )
331 (progn
332   (print "Reescribió adecuadamente la preferencia del archivo")
333 )
334 }
335 }
336 }
337 }
338 }
339 }
340 }
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