12/5/2021 listado_ej1a.rb

```
1 =begin
 2 Ejercicio 1a. Desarrollar un script donde se muestren los ficheros del pasado por
 3 parámetro, así como los permisos asociados a cada uno de ellos, su identificador de
  usuario, su
 4 identificador de grupo, así como permisos como "Setuid, Setgid, o hasta incluso si
  tiene activo
 5 el bit sticky bit".
 6 Sintaxis: listado.rb [Dir]
 7 Dir será opcional de forma que si el usuario no lo inserta el script buscará en el
  directorio actual
 8 El script deberá capturar todas las posibles excepciones como pueden ser:
9 a. Debe permitir el paso de parámetros con una sintaxis correcta
10 b. Si se produce alguna excepción grave a la hora de la búsqueda en sí, el script
   deberá
11 comunicarlo.
12 =end
13
14
15
16
17 =begin
18 Usage: Check if a path exists
19 Name of method: checkDirectory
20 Date of creation: 08/04/2021
21 Members: Roberto Jiménez y Alberto Pérez
22 Last modification: 08/04/2021
23 Parameters:
24
      Entry:
25
           - path: path that will be checked
26
           - boolean: True if exists
27
28 =end
29 def checkDirectory path
30
       return Dir.exist?(path)
31 end
32
33
34
35 =begin
36 Usage: List files of a directory
37 Name of method: listFiles
38 Date of creation: 08/04/2021
39 Members: Roberto Jiménez y Alberto Pérez
40 Last modification: 08/04/2021
41 Parameters:
42
      Entry:
43
           - path: path that will be checked
44
      Out:
45
           - List of files of path
46 =end
47 def listFiles path
48
       return `ls -l #{path}`
49 end
50
51
52 =begin
53 Usage: Body of program
54 Date of creation: 08/04/2021
55 Members: Roberto Jiménez y Alberto Pérez
56 Last modification: 08/04/2021
```

12/5/2021 listado_ej1a.rb

```
57 Parameters:
58
       Entry:
           - Argv: Parameter introduced by console when program is called
59
60
       Out:
61
           - None
62 =end
63 if ARGV.length == 1
       path = ARGV[0]
64
65
       if checkDirectory path
           puts listFiles path
66
67
       else
           puts "Error, path is not correct"
68
       end
69
70 end
```

12/5/2021 listado_ej1b.rb

```
1 =begin
 2 Ejercicio 1b. Modificar el anterior script para que se le pida al usuario por consola
   el directorio
 3 donde tendrá que buscar.
 4 Sintaxis: listado.rb
 5 El script deberá capturar todas las posibles excepciones como pueden ser:
 6 a. Si el directorio que el usuario introduce no existe o no es un directorio, deberá
   dar un
 7 error.
 8 b. Si el usuario que lo invoca no tiene permisos de lectura del directorio, el script
 9 gestionar esta excepción.
10 =end
11
12
13
14
15 =begin
16 Usage: Check if a path exists
17 Name of method: checkDirectory
18 Date of creation: 08/04/2021
19 Members: Roberto Jiménez y Alberto Pérez
20 Last modification: 08/04/2021
21 Parameters:
22
       Entry:
23
           - path: path that will be checked
24
       Out:
25
           - boolean: True if exists
26 =end
27 def checkDirectory path
       return Dir.exist?(path)
28
29 end
30
31
32 =begin
33 Usage: List a directory passed by path
34 Name of method: listDirectory
35 Date of creation: 08/04/2021
36 Members: Roberto Jiménez y Alberto Pérez
37 Last modification: 08/04/2021
38 Parameters:
39
       Entry:
40

    path: path of the directory to list

41
       Out:
           - list: result from ls if directory has reading permissions
42
43 =end
44 def listDirectory path
45
       if File.readable?(path)
           list = `ls #{path}`
46
47
           return list.split(" ")
48
49
       return ["Error, directory has not reading permissions"]
50 end
51
52
53 =begin
54 Usage: List all directories starting from path
55 Name of method: listDirectories
56 Date of creation: 08/04/2021
57 Members: Roberto Jiménez y Alberto Pérez
```

12/5/2021 listado_ej1b.rb

```
58 Last modification: 9/04/2021
 59
        - Added different colors in terminal for directories, files...
60 Parameters:
61
        Entry:
62
            - path: path that will be checked
63
        Out:
64 =end
65 def listDirectories path
66
        auxDirectories = []
67
        files = listDirectory path
68
        puts "\e[1;34m#{path}\e[m"
        files.each do |element|
69
            newPath = path + "/" + element
 70
 71
            if checkDirectory newPath
 72
                puts "\e[1;36m#{newPath}\e[m"
 73
                auxDirectories.push(newPath)
 74
            else
 75
                puts "\e[1;37m#{element}\e[m"
 76
            end
 77
        end
 78
        puts "\e[1;37m\n\e[m"
 79
80
81
        auxDirectories.each do | directory |
82
            listDirectories directory
83
        end
84 end
85
86
87 =begin
 88 Usage: Body of the program
 89 Date of creation: 08/04/2021
 90 Members: Roberto Jiménez y Alberto Pérez
 91 Last modification: 08/04/2021
92 Parameters:
93
        Entry:
94
            - Path: Parameter requested from the user
95
        Out:
            - None
96
97 =end
98 puts "Put the directory path to list"
99 path = gets.chomp
100
101 if checkDirectory path
        listDirectories path
102
103 else
104
        puts "Error, path is not correct"
105 end
```

```
1 =begin
 2 Ejercicio 3. Escribir un script "renombrar" que renombre un conjunto de ficheros,
  posibilitando
 3 el cambio de la extensión del fichero, siendo la sintaxis la siguiente:
 4 ./renombrar extensión-anterior nueva-extensión
 5 El script deberá contemplar los posibles casos de error, como por ejemplo el paso de
   parámetros
 6 correcto
7 =end
8
9 =begin
10 Usage: Lists the files from a directory that match with extension
11 Name of method: listFiles
12 Date of creation: 29/04/2021
13 Members: Roberto Jiménez y Alberto Pérez
14 Last modification: 29/04/2021
15 Parameters:
16
       Entry:
17
           - extension: extension to check
18
       Out:
           - List of files from path that matched the extension
19
20 =end
21 def listFiles extension
       list = []
22
23
       list = `ls *.#{extension} | nl`
       return list.split("\n")
24
25 end
26
27 =begin
28 Usage: Renames a file with a new extension
29 Name of method: renameFile
30 Date of creation: 29/04/2021
31 Members: Roberto Jiménez y Alberto Pérez
32 Last modification: 29/04/2021
33 Parameters:
34
       Entry:
35
           - fileName: name of the file whose extension is going to be changed
36
           - new_extension: new extension to the file
37
       Out:
           - String: Name of the file with the new extension
38
39 =end
40 def renameFile fileName, new_extension
41
       auxName = fileName.split(".")
42
       onlyName = auxName[0]
       'mv #{fileName} #{onlyName}.#{new_extension} `
43
44
       return "#{onlyName}.#{new extension}"
45 end
46
47 =begin
48 Usage: Body of the program
49 Date of creation: 29/04/2021
50 Members: Roberto Jiménez y Alberto Pérez
51 Last modification: 29/04/2021
52 Parameters:
53
       Entry:
           - Argv: Parameter introduced by console when program is called
54
55
       Out:
56
           - None
57 =end
58 if ARGV.length == 2
```

```
12/5/2021
                                                renombrar_ej3.rb
 59
        current_extension = ARGV[0]
 60
        new_extension = ARGV[1]
 61
 62
        files = listFiles current_extension
 63
        puts "Files available for rename: "
        puts files
 64
 65
        puts "Select the number of the file to rename: "
        fileToRename = (STDIN.gets.chomp.to_i - 1)
 66
 67
        if (fileToRename >= 0) && (fileToRename < files.length)</pre>
 68
            auxFile = files[fileToRename].split(" ")
 69
            renamedFile = renameFile auxFile[1], new_extension
 70
            puts "#{auxFile[1]} renamed to: #{renamedFile}"
 71
 72
        else
 73
            puts "Error, number of file invalid"
 74
        end
 75 end
```

12/5/2021 diffd_ej4.rb

```
1 =begin
 2 Ejercicio 4. Realizar un script denominado diffd con la siguiente sintaxis:
 3 diffd [-r] directorio1 [directorio2]
 4 Donde el script deberá buscar todos los nombres de fichero ubicados en directorio1 y
 5 directorio2, exceptuando los nombres de los directorios, y a continuación mostrar las
 6 diferencias, o sea aquellos ficheros que aparecen en uno de los directorios, pero no
   en el otro,
 7 indicando para cada uno de ellos en que directorio se encuentran.
 8 Por otra parte, será necesario introducir una serie de parámetros: directorio1 y
 9 siendo los directorios donde realizaremos la comparación, y como podemos observar en
   la
10 sintaxis
11 directorio2 es opcional, esto quiere decir que si el usuario no lo especifica el
   script comparará
12 directorio1 con el directorio actual.
13 Finalmente, si añadimos la opción -r (opcional) el script tendrá que realizar la
   acción inversa,
14 mostrando los nombres de aquellos ficheros que se encuentran en los dos directorios.
15
16 = end
17
18 =begin
19
       Usage: Check if a path exists
20
       Name of method: checkDirectory
21
       Date of creation: 09/04/2021
22
       Members: Roberto Jiménez y Alberto Pérez
23
       Last modification: 09/04/2021
24
       Parameters:
25
           Entry:
26

    path: path that will be checked

27
           Out:
28
               - boolean: True if exists
29 =end
30 def checkDirectory path
31
       return Dir.exist?(path)
32 end
33
34
35 =begin
       Usage: Get parameters from ARGV
36
37
       Name of method: getParameters
38
       Date of creation: 09/04/2021
       Members: Roberto Jiménez y Alberto Pérez
39
       Last modification: 09/04/2021
40
41
       Parameters:
42
           Entry:
43
               - None
           Out:
44
45
               - Array with parameters passed
46 =end
47
48 def getParameters
49
       array = []
50
       i = 0
51
       for arg in ARGV
52
           array[i] = arg
53
           i = i + 1
54
       end
55
       return array
```

```
56 end
 57
 58 =begin
 59
        Usage: List files of a directory
 60
        Name of method: listFiles
61
        Date of creation: 08/04/2021
        Members: Roberto Jiménez y Alberto Pérez
 62
        Last modification: 08/04/2021
 63
        Parameters:
64
            Entry:
65
 66

    path: path that will be checked

 67
            Out:
 68
                 - List of files of path
 69 =end
 70 def listFiles path
        list = []
71
        list = `ls #{path}`
72
        return list.split("\n")
 73
 74 end
 75
 76
 77 =begin
 78
        Usage: Remove directory name from a list of files
 79
        Name of method: removeDirectory
 80
        Date of creation: 09/04/2021
        Members: Roberto Jiménez y Alberto Pérez
81
 82
        Last modification: 09/04/2021
 83
        Parameters:
 84
            Entry:
85
                 - list: list that will be checked
 86
            Out:
 87
                - Same list without directory names
 88 =end
89 def removeDirectory list, dir
 90
        newList = []
91
92
        for i in list
93
            path= dir + '/' + i
 94
            if !checkDirectory path
95
                newList.push(i)
96
            end
97
        end
98
        return newList
99 end
100
101 =begin
102
        Usage: Compare 2 directories to see if exists
103
        file with the same name and reverse
        Name of method: diff
104
        Date of creation: 09/04/2021
105
106
        Members: Roberto Jiménez y Alberto Pérez
107
        Last modification: 09/04/2021
108
        Parameters:
109
            Entry:
110
                - dir1: first directory to check
                 - dir2: second directory to check
111
                - reverse: boolean, to see if -r option is enabled
112
113
            Out:
114
                 - None
115 =end
```

12/5/2021 diffd ej4.rb

```
116 def diff dir1, dir2, reverse
117
        filesDir1 = removeDirectory (listFiles dir1), dir1
118
119
        filesDir2 = removeDirectory (listFiles dir2), dir2
120
        for i in filesDir1
121
122
            if filesDir2.include?(i) and reverse
                puts i + ' is in both directories'
123
124
            elsif !filesDir2.include?(i) and !reverse
125
                puts i + ' is only in ' + dir1
126
            end
127
        end
        for i in filesDir2
128
129
            if !filesDir1.include?(i) and !reverse
130
                puts i + ' is only in ' + dir2
131
            end
        end
132
133 end
134
135
136 list = getParameters
137 actualDir = `pwd`
138
139 case list[0]
140 when "-r"
141
        if list.length == 3 and checkDirectory list[1] and checkDirectory list[2]
142
            diff list[1], list[2], true
143
144
        elsif list.length == 2 and checkDirectory list[1]
            diff list[1], actualDir, true
145
146
        else
147
            puts 'Syntax error, correct syntax: ruby diffd_ej4.rb [-r] dir1 [dir2]'
        end
148
149 else
150
        case list.length
151
        when 0
152
            puts 'Error, it must be a directory into a parameters'
153
            puts 'Syntax: ruby diffd ej4.rb [-r] dir1 [dir2]'
154
        when 1
155
            if checkDirectory list[0]
                diff list[0], actualDir, false
156
157
158
            else
                puts 'Error, ' + list[0] + ' is not a directory'
159
160
            end
161
        when 2
162
            if checkDirectory list[0] and checkDirectory list[1]
                diff list[0], list[1], false
163
164
            elsif checkDirectory list[0]
165
                puts 'Error, ' + list[1] + ' is not a directory'
166
            elsif checkDirectory list[1]
167
                puts 'Error, ' + list[0] + ' is not a directory'
168
169
            end
170
        else
171
            puts 'Too many arguments'
172
        end
173 end
174
175
```

12/5/2021 proceso_ej5.rb

```
1 =begin
 2 Ejercicio 5. Desarrollar un script que nos muestre por consola información relevante
 3 identificador de proceso que el usuario inserte por consola.
 4 Sintaxis: proceso.rb
 5 El script deberá mostrar la siguiente información del proceso: identificador UID,
  propietario
 6 PID, PPID, Prioridad absoluta "C", Prioridad Relativa "PRI" y la Dirección en
  memoria o en
 7 disco del proceso "ADDR"
8 =end
9
10
11 =begin
12
       Usage: Body of code program who shows info about a process id
      Name of method:
13
14
      Date of creation: 10/04/2021
      Members: Roberto Jiménez y Alberto Pérez
15
      Last modification: 10/04/2021
16
17
      Parameters:
18
           Entry:
19
               - None, only a parameter passed by ARGV
20
21
               - None, output is shown in terminal
22 =end
23 if ARGV.length == 0
       puts 'Error, a process id is necesary'
25 elsif ARGV.length == 1
       query = 'ps -o uid,pid,ppid,c,pri,addr ' + ARGV[0]
26
27
       result = `#{query}`
28
       puts result
29 else
       puts 'Error, only process id parameter is necessary'
30
31 end
32
```

12/5/2021 ordenar_ej6.rb

```
1 =begin
 2 Ejercicio 6. Escribir un script en ruby donde el usuario pasará un conjunto de
 3 consola y automáticamente devolverá todos los valores sin ordenar por consola y
 4 posteriormente ordenados. Su sintaxis será:
 5 ./ordenar.rb 13 5 6 7 0 -6
 6 El script deberá contemplar todos los casos de error existentes, como podría ser el
   paso de algún
 7 parámetro de tipo no numérico. ¿qué sucedería si le pasamos al script más de 10
 8 Implementar las oportunas modificaciones para que lo soporte.
9 =end
10
11 =begin
12 Usage: Check if the object passed is a number
13 Name of method: is_number?
14 Date of creation: 15/04/2021
15 Members: Roberto Jiménez y Alberto Pérez
16 Last modification: 15/04/2021
       - Now you can check all type of objects, not only Strings.
18 Parameters:
       Entry:
19
20
           - object: object to check
21
       Out:
22
           - boolean: return true if the object is a number
23 =end
24 def is_number? object
25
       true if Float(object) rescue false
26 end
27
28
29 =begin
30 Usage: Deletes from argy all elements that aren't numbers
31 Name of method: listFiles
32 Date of creation: 15/04/2021
33 Members: Roberto Jiménez y Alberto Pérez
34 Last modification: 15/04/2021
35 Parameters:
36
       Entry:
37
           - argv: list of elements to check
38
       Out:
39
           - aux: argv, only formed by numbers
40 =end
41 def cleanArgv argv
42
       aux = []
43
       argv.each do |element|
           if is_number? element
44
45
               aux.push(element)
46
           else
47
               puts "Error, #{element} is not a number"
48
           end
49
       end
50
       return aux
51 end
52
53
54 = begin
55 Usage: Generates a string from an array
56 Name of method: generateStringFromArray
57 Date of creation: 15/04/2021
```

12/5/2021 ordenar ej6.rb

```
58 Members: Roberto Jiménez y Alberto Pérez
59 Last modification: 15/04/2021
60 Parameters:
61
       Entry:
62
           - array: array of elements
63
       Out:
64
           - string: string got from the array
65 =end
66 def generateStringFromArray array
       puts ""
67
       string = ""
68
       array.each do |n|
69
           string += "#{n} "
70
71
       end
72
       return string
73 end
74
75
76 =begin
77 Usage: Body of the program
78 Date of creation: 15/04/2021
79 Members: Roberto Jiménez y Alberto Pérez
80 Last modification: 15/04/2021
81 Parameters:
82
       Entry:
           - Argv: Parameter introduced by console when program is called
83
84
       Out:
85
           - None
86 =end
87
88 if ARGV.length > 0
       argvCleaned = cleanArgv(ARGV)
89
90
       numbers = generateStringFromArray argvCleaned
91
92
       sortedNumbers = generateStringFromArray argvCleaned.sort
93
       puts "The numbers without sorting are: #{numbers}"
94
95
       puts "The sorted numbers are: #{sortedNumbers}"
96 else
       puts "Error, you have to pass parameters"
97
98 end
99
```

12/5/2021 nchmod_ej7.rb

```
1 =begin
 2 Ejercicio 7. Realizar un script en ruby denominado nchmod que nos visualice por el
 3 decimal asociado a los permisos que le queramos dar a un fichero.
 4 Ejemplo:
 5 nchmod.rb r-sr-xr-x el resultado que devolverá será 4555
 6 El script tendrá que controlar el número de caracteres insertados por el usuario,
   mostrando un
 7 mensaje de error donde especifiquemos el uso
 9
10
11
12
13 =begin
14 Usage: doing nothing in a match
15 Name of method: pass
16 Date of creation: 22/04/2021
17 Members: Roberto Jiménez y Alberto Pérez
18 Last modification: 22/04/2021
19 Parameters:
       Entry:
20
21
           - None
22
       Out:
23
           - None
24 = end
25 def pass
26 end
27
28 =begin
29 Usage: Checks the firsts characters
30 Name of method: checkFirsts
31 Date of creation: 22/04/2021
32 Members: Roberto Jiménez y Alberto Pérez
33 Last modification: 22/04/2021
34 Parameters:
       Entry:
35
36
           - characters: string to check
37
           - array: gets the number of permissions in octal
38
       Out:
39
           - None
40 =end
41 def checkFirsts characters, array
42
43
       for i in [1,4,7]
           if (i == 1) && (characters[i] == "r")
44
45
               array[1] = array[1] + 4
           elsif (i == 4) && (characters[i] == "r")
46
47
               array[2] = array[2] + 4
48
           elsif (i == 7) && (characters[i] == "r")
49
               array[3] = array[3] + 4
50
           elsif (characters[i] == "-")
51
               pass
52
           else
               puts "Error, the letter #{characters[i]} does not belong to a permission"
53
54
55
           end
56
       end
57 end
58
```

```
12/5/2021
                                                nchmod ej7.rb
 59
 60
 61 =begin
 62 Usage: Checks the seconds characters
 63 Name of method: checkSeconds
 64 Date of creation: 22/04/2021
 65 Members: Roberto Jiménez y Alberto Pérez
 66 Last modification: 22/04/2021
 67 Parameters:
 68
         Entry:
 69
             - characters: string to check
 70
             - array: gets the number of permissions in octal
 71
 72
             - None
 73 =end
 74 def checkSeconds characters, array
 75
         for i in [2,5,8]
 76
             if (i == 2) && (characters[i] == "w")
 77
                 array[1] = array[1] + 2
             elsif (i == 5) && (characters[i] == "w")
 78
 79
                 array[2] = array[2] + 2
 80
             elsif (i == 8) && (characters[i] == "w")
 81
                 array[3] = array[3] + 2
             elsif (characters[i] == "-")
 82
 83
                 pass
 84
             else
 85
                 puts "Error, the letter #{characters[i]} does not belong to a permission"
 86
                 exit
 87
             end
 88
         end
 89 end
 90
 91
 92 =begin
 93 Usage: Checks the seconds characters
 94 Name of method: checkSeconds
 95 Date of creation: 22/04/2021
 96 Members: Roberto Jiménez y Alberto Pérez
 97 Last modification: 22/04/2021
 98 Parameters:
 99
         Entry:
100
             - characters: string to check
101
             - array: gets the number of permissions in octal
         Out:
102
103
             - None
104 =end
105 def checkThirds characters, array
106
         for i in [3,6,9]
107
             if (i == 3) && (characters[i] == "x")
108
                 array[1] = array[1] + 1
109
             elsif (i == 3) && (characters[i] == "s")
                 array[0] = array[0] + 4
110
             elsif (i == 6) && (characters[i] == "x")
111
                 array[2] = array[2] + 1
112
113
             elsif (i == 6) && (characters[i] == "s")
114
                 array[0] = array[0] + 2
             elsif (i == 9) && (characters[i] == "x")
115
116
                 array[3] = array[3] + 1
             elsif (i == 9) && (characters[i] == "t")
117
118
                 array[0] = array[0] + 1
```

```
12/5/2021
                                                nchmod ej7.rb
             elsif (characters[i] == "-")
119
120
                 pass
121
             else
                 puts "Error, the letter #{characters[i]} does not belong to a permission"
122
123
                 exit
             end
124
125
         end
126 end
127
128
129
130
131 =begin
132 Para la solucion de este ejercicio, se va a seguir el siguiente metodo de resolucion:
         - Se va a usar de ejemplo la cadena rwx-wxr-x.
         - Para el analisis de una cadena, se realizara de la siguiente forma:
134
             - checkFirsts --> analiza todas las primeras posiciones, es decir, r - r
135
136
             - checkSeconds --> analiza todas las segundas posiciones, es decir, w w -
             - checkThirds --> analiza todas las terceras posiciones, es decir, x x x
137
138
         - Mientras se analizan, se van sumando los valores a la posicion correspondiente
    del numero
139 =end
140
141 =begin
142 Usage: Body of the program
143 Date of creation: 22/04/2021
144 Members: Roberto Jiménez y Alberto Pérez
145 Last modification: 22/04/2021
146 Parameters:
147
         Entry:
             - Argv: Parameter introduced by console when program is called
148
149
         Out:
150
             - None
151 = end
152 if ARGV.length == 1
         characters = ARGV[0].chars
153
         if characters.length == 9
154
155
             permissions = [0,0,0,0]
156
             checkFirsts characters, permissions
157
             checkSeconds characters, permissions
             checkThirds characters, permissions
158
159
             puts permissions
160
161
         else
             puts "Error, the string is not correct (length is not 9)"
162
163
         end
164 else
165
         puts "Error 1 parameter is necessary to execute the script"
166 end
167
168
```

```
1 require 'nokogiri'
 2 require 'open-uri'
 3
 4 =begin
 5 Ejercicio 8. Construir un Web Crawler (rastreador, araña, o robot) en Ruby capaz de
   analizar
 6 una página web concreta y que cree una base de datos con la información obtenida
 7 =end
8
9 =begin
10
       Usage: Gets source code and urls from a page
11
       Name of method: getSoruceCode
12
       Date of creation: 29/04/2021
13
       Members: Roberto Jiménez y Alberto Pérez
14
       Last modification: 06/05/2021
       Parameters:
15
16
           Entry:
17
               - URL: Parameter of the program
18
           Out:
19
               - list with urls without parsing
20 =end
21
22 def getSourceCode url
23
       # Gets source code from page
       parsed_data = Nokogiri::HTML.parse(URI.open(url))
24
       list = []
25
26
       puts parsed_data.class
27
       #Gets all urls from source code
28
29
       tags = parsed data.xpath("//a")
       tags.each do | tag|
30
31
           list.append("#{tag[:href]}\t#{tag.text}")
32
       end
       return list
33
34 end
35
36 =begin
37
       Usage: Insert data received into a DB
       Name of method: insertDB
38
39
       Date of creation: 29/04/2021
40
       Members: Roberto Jiménez y Alberto Pérez
41
       Last modification: 06/05/2021
42
       Parameters:
43
           Entry:
               - list: list with urls
44
45
               - url: URL from page to analyze
46
           Out:
47
               - None, output is saved in DB
48 =end
49
50 def insertDB list, url
51
       #Insert data into DB
52
       `echo -n #{url} > aux.csv`
       `echo " ~" >> aux.csv`
53
54
       `echo #{list} >> aux.csv`
       `sudo mysql --local-infile=1 -h "localhost" -u rober "-prober" < insertarBD.sql`
55
56 end
57
58 #Parse information with Grep command
59 list = getSourceCode ARGV[0]
```

```
parsedList = `echo #{list} | grep -E 'http[s]*://[a-zA-Z0-9./?@=%&:_#-]*'`
finalList = parsedList.split(',')
insertDB finalList, ARGV[0]
for url in finalList
   puts url
end
66
67
```

12/5/2021 insertarBD.sql

```
1
 2 CREATE DATABASE IF NOT EXISTS practicaAS2;
 3 USE practicaAS2;
4
 5 /*
 6
      Create table pagina and add urls from main url page
 7
      Delete each time to not generate too much info
8 */
9 DROP TABLE IF EXISTS pagina;
10 CREATE TABLE IF NOT EXISTS pagina(
      urlPagina TEXT,
11
12
      subenlaces TEXT
13);
14
15
16 /*
17
       Load CSV created from info received
18 */
19 LOAD DATA
20 LOCAL INFILE 'aux.csv'
21 INTO TABLE pagina
22 FIELDS TERMINATED BY '~'
23 (urlPagina, subenlaces);
24
25
```

localhost:4649/?mode=sql 1/1