

```
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
  deberá
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
28   return Dir.exist?(path)
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:
42     - list: result from ls if directory has reading permissions
43 =end
44 def listDirectory path
45   if File.readable?(path)
46     list = `ls #{path}`
47     return list.split(" ")
48   end
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
```

```
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"
69   files.each do |element|
70     newPath = path + "/" + element
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
79   puts "\e[1;37m\n\e[m"
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:
96     - None
97 =end
98 puts "Put the directory path to list"
99 path = gets.chomp
100
101 if checkDirectory path
102   listDirectories path
103 else
104   puts "Error, path is not correct"
105 end
```