Python Class Part-1

**Regular expression:**

module name: re

expression: re.findall(pattern,stringtext)

Text

Description automatically generated

*with grouping in the pattern*



*Without grouping in the pattern*



*Case in-sensitive match:*

match=re.findall(*r*'(?i)hackerrank',filestr)

(?i) called, modifier. If you put in between of the string then after the modifier part will be applicable.

*Remove duplicates from a list*

Graphical user interface, text, application

Description automatically generated

To gather the filenames in a directory:

Module Name: glob(glob.glob)

os(os.path.join)

Expression: glob.glob(os.path.join(inputPath,'baby\*.html'))

Text

Description automatically generated

Text

Description automatically generated

Along with merging the contents into a single file

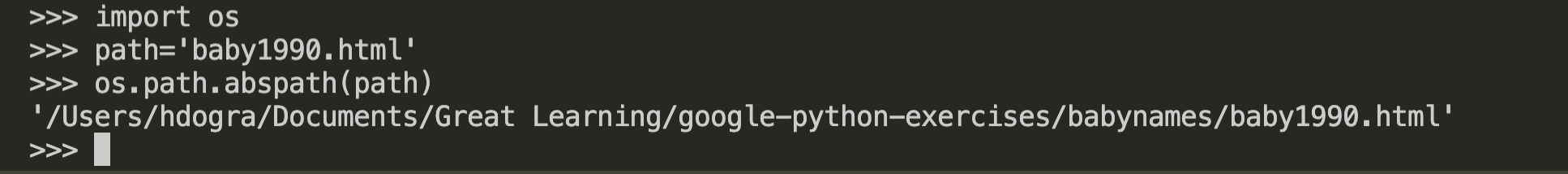
Text

Description automatically generated

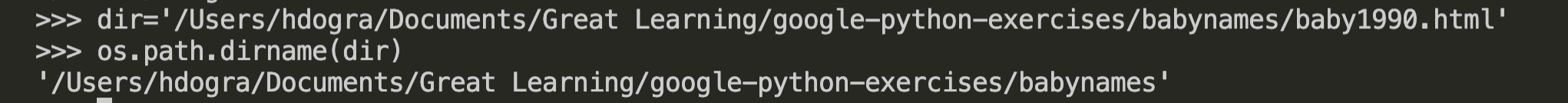
Listing the files inside a dir-



(os.path.abspath) take the PWD as path and append it to the filename



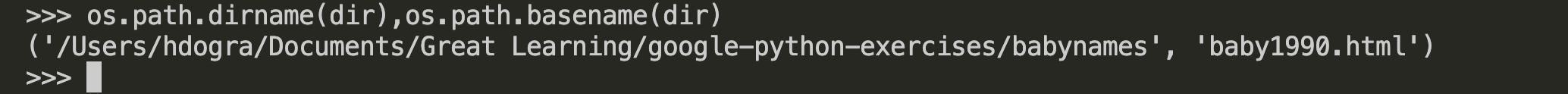
(os.path.dirname), if you pass the filename with absolute path then it will tell you the dir name where the file exist.



(os.path.basename), give the filename back which is provided as dir



(os.path.dirname,os.path.basename) works together in a fashion to provide the dir name where file exist and the filename which is present under that dir.



(os.path.exists) finds if the file is present in the current working dir. Else, if given the full path then does it exist.

Text

Description automatically generated

(os.makedirs) could create recursive dirs, you need to provide the absolute path in the arg.

(os.system) execute linux commands.

Text

Description automatically generated

(shutil.copy) copies the files only from source to dest

Text

Description automatically generated

To open a HTTP URL and read its content

(Urllib.request) module helps doing the same

Text

Description automatically generated

Error Handling

try and except block can help you to handle the error

**IOError:** this helps handling the input/output error

Text

Description automatically generated