```
import os
# print the path of the current file directory
print(os.getcwd())
# to change the current working directory
os.chdir(r"C:\Users\YOUSSEF\Desktop")
# ------
# print the files that exist in current working directory
print(os.listdir())
# print the files that exist in a specific path
print(os.listdir(r"D:\\"))
# -------
# create a new folder
os.mkdir("C:\\Users\YOUSSEF\Desktop\Pythons")
# to create some folders [nested folders]
os.makedirs(r"C:\Users\YOUSSEF\Desktop\Hassan\Osama")
# -----
# to remove folders
os.rmdir(r"C:\\Users\YOUSSEF\Desktop\Python")
# remove all folders that specified on the path
os.removedirs(r"C:\\Osama")
# ------
# create new folder
os.mkdir(r'C:\\Users\YOUSSEF\Desktop\test')
# change the current working directory
os.chdir(r"C:\\Users\YOUSSEF\Desktop\test")
# create folder in other folder
os.mkdir(r'C:\\Users\YOUSSEF\Desktop\test\\Osama')
# Rename the folder
os.rename('Osama', "Hassan")
# -----
```

# create new folder

os.mkdir(r"C:\\Users\YOUSSEF\Desktop\test")

```
# change the current working directory
os.chdir(r"C:\\Users\YOUSSEF\Desktop\test")
# to know information about text file
# info can be [file size, file mode, date of file]
print(os.stat("text.txt"))
import os
# this return Tuple: that contains 3 values:
# [1] path
# [2] all folders that exist in the path [and folders of all path]
# [3] files that exist in the folder [and files of the folders of all path]
for path, folders, files in os.walk(f"D:\\Applications"):
   print(f"Path ==> {path}")
   print(f"folders ==> {folders}")
   print(f"files ==> {files}")
   print("="*88)
# ---------
import os
# create new folder
os.mkdir(r"C:\\Users\YOUSSEF\Desktop\test")
# change the directory to the new folder
os.chdir(r"C:\\Users\YOUSSEF\Desktop\test")
the_folder_name = input("enter the folder name: ")
# join method take 2 arguments
# [1] path
# [2] the new folder that will added
#join: used to join paths, or filenames
folder_name = os.path.join(os.getcwd(), the_folder_name)
# create new folder that take the path and the folder name
os.mkdir(folder_name)
# ------
import os
# True : folder exist
# False: folder not exist
# check if the folder exist or not
print(os.path.exists(r"C:\\Users\YOUSSEF\Desktop\test\osama"))
```

```
# -------
import os
# False: not file
# True: is file
# check if the path is file or not
print(os.path.isfile(r"C:\\Users\YOUSSEF\Desktop\test"))
# -----
import os
# False: folder
# True: not folder
# check if the path is folder or not
print(os.path.isdir(r"C:\\Users\YOUSSEF\Desktop\test"))
# -----
import os
# to know more about os
# print all methods in os module
print(dir(os))
print("="*88)
# print all methods in os.path [path method]
print(dir(os.path))
print("="*88)
# if you want to know about spesific method
print(help(os.path.abspath)) # Return the absolute version of a path.
print("="*88)
# if you want to know about spesific method
print(help(os.path.relpath)) # Return a relative version of a path.
print("="*88)
# ------
```