OS MODULE

OS is one pre-defined module, used to perform some os related operations

example:

1) creating folder / directory.(mkdir())

for creating folder / directory we used mkdir(),if folder name already exist thn we get FileNotFoundError.

can create one folder at a time, in mkdir() if we specify any folder name with escape sequence (\n \u \digits.\t),thn we get OSError.

syntax: os.mkdir('folder name')

2) creating folders hierarchy.(makedirs())

for creating folder hierarchy we used makedirs(), if folder name already exist thn we get FileNotFoundError.

syntax: os.makedirs('folder hierarchy')

3) removing folder / directory. (rmdir())

for removing folder / directory we used rmdir(),

syntax: os.rmdir('folder name')

4) removing folders hierarchy. (removedirs())

for removing folder hierarchy we used makedirs(), if folder name already exist thn we get FileNotFoundError.

syntax: os.removedirs('folder hierarchy')

5) removing file from folder. (remove())

to remove file name from folder we use remove().

syntax: os.remove('file name')

6) renaming folder / file name (rename())

to rename a folder, we used rename().

syntax: os.rename('old foldername','new folder name')

7) list the file names in folder(listdir())

to list the file names in folder ,we used listdir().

syntax: os.listdir('absolute path of folder name')

```python
import os
try:
    os.mkdir(r"C:\Users\shaba\OneDrive\github\17_0S_module\mkdir")
    print('folder created sucessfully')
except FileNotFoundError:
    print("mkdir() can create only one file at a time")
except FileExistsError:
    print("The specified folder already exist")
```

```python
import os
```

```python
try:
    os.makedirs(r'C:\Users\shaba\OneDrive\github\17_0S_module\makedirs')
    print('folder created sucessfully')
except FileExistsError:
    print('The specified folder already exist')
except OSError:
    print('check your path of folder name')
```

In [ ]:
```python
import os
try:
    os.rmdir(r'C:\Users\shaba\OneDrive\github\17_0S_module\mkdir')
    print('folder removed sucessfully')
except FileExistsError:
    print('The specified folder already exist')
except OSError:
    print('check your path of folder name')
```

In [ ]:
```python
import os
try:
    os.removedirs(r'C:\Users\shaba\OneDrive\github\17_0S_module\makedirs')
    print('folder removed sucessfully')
except FileExistsError:
    print('The specified folder already exist')
except OSError:
    print('check your path of folder name')
```

In [ ]:
```python
import os
try:
    os.remove(r"C:\Users\shaba\OneDrive\github\17_0S_module\mkdir\NP, Plt, PIl.ipynb")
    print('file removed sucessfully')
except FileExistsError:
    print('The specified folder already exist')
except OSError:
    print('check your path of folder name')
```

In [ ]:
```python
import os
try:
    os.rename(r'C:\Users\shaba\OneDrive\github\17_0S_module\mkdir',r'C:\Users\shaba\OneDrive\github\17_0S_modul
    print('folder name removed sucessfully')
except FileExistsError:
    print('The specified folder already exist')
except OSError:
    print('check your path of folder name')
```

In [ ]:
```python
import os
try:
    foldername=input('enter your folder name')
    fileslist=os.listdir(r'C:\Users\shaba\OneDrive\github\17_0S_module\mkdir')
    print('folder removed sucessfully')
    print('list of files')
    for filename in fileslist:
        print(filename)
except FileExistsError:
    print('The specified folder already exist')
except OSError:
    print('check your path of folder name')
```