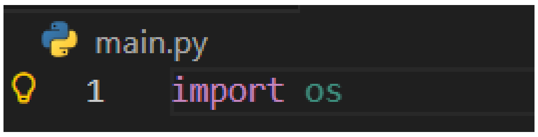
Day 28

os Module in Python:

What Is the os Module?

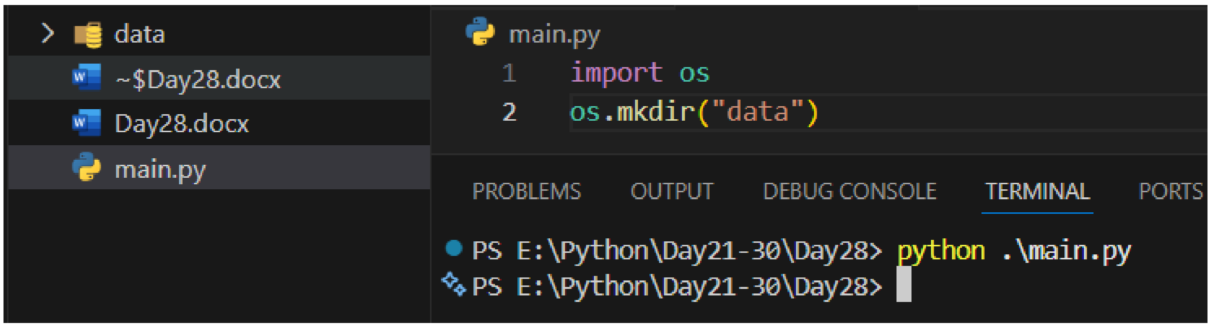
- os is a built-in Python module for interacting with the operating system
- Lets you perform tasks like:
    - File and directory management
    - Environment variables
    - Process management

Importing the module:



```python
import os
```

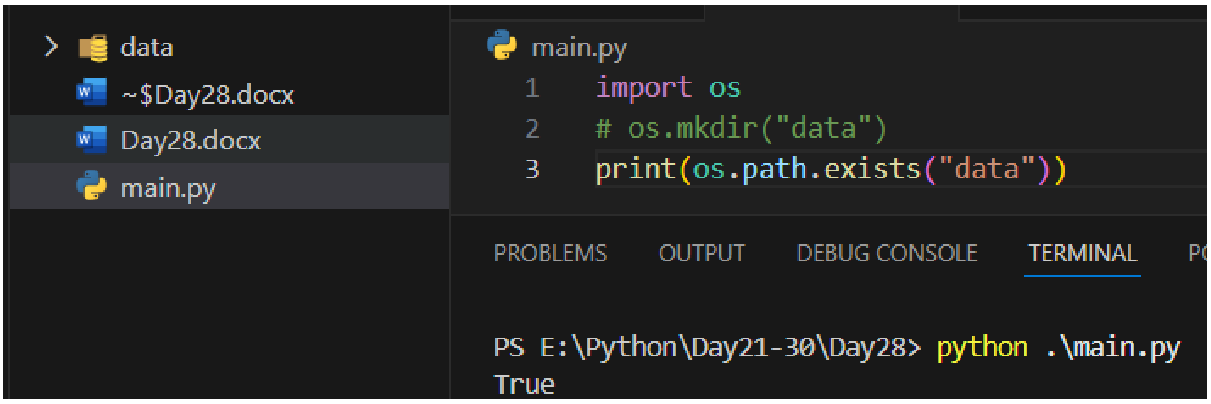
Example: Creating a folder using the os module.



```python
import os
os.mkdir("data")
```

```
PS E:\Python\Day21-30\Day28> python .\main.py
PS E:\Python\Day21-30\Day28>
```

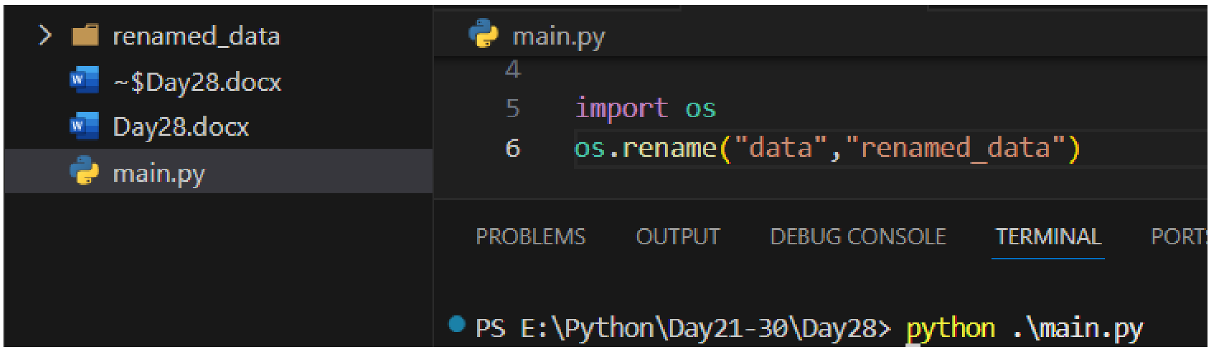
Example: code to check if a folder exists in our folder or not.



```python
import os
# os.mkdir("data")
print(os.path.exists("data"))
```

```
PS E:\Python\Day21-30\Day28> python .\main.py
True
```

Example: to rename



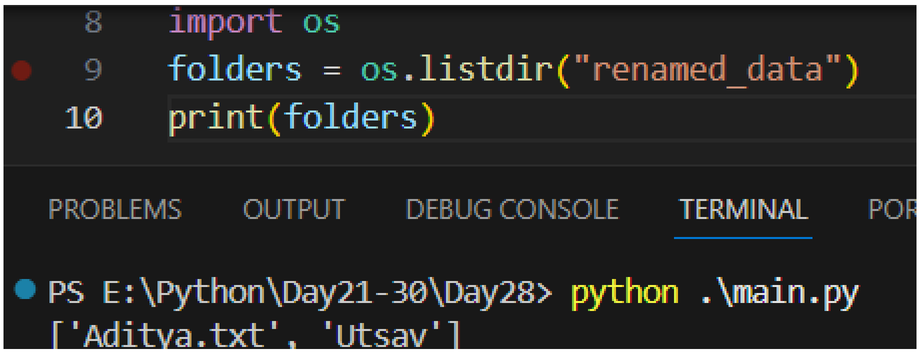
```
renamed_data
~$Day28.docx
Day28.docx
main.py
```

main.py

```python
import os
os.rename("data","renamed_data")
```

```
PS E:\Python\Day21-30\Day28> python .\main.py
```

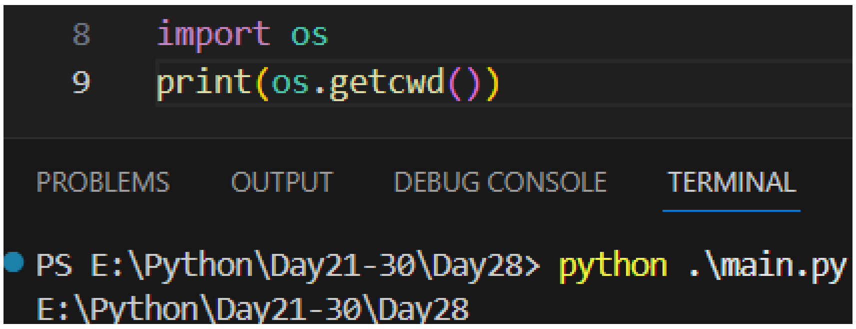
Example: to print the list of the folders in a specific folder.



```python
import os
folders = os.listdir("renamed_data")
print(folders)
```

```
PS E:\Python\Day21-30\Day28> python .\main.py
['Aditya.txt', 'Utsav']
```

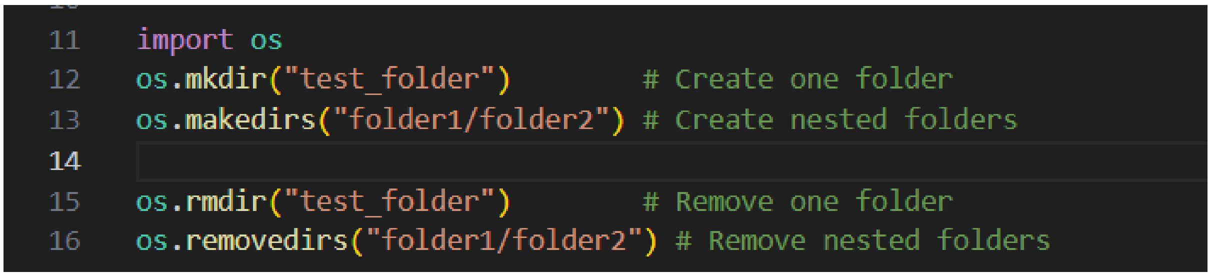
Example: Current Working Directory



```python
import os
print(os.getcwd())
```

```
PS E:\Python\Day21-30\Day28> python .\main.py
E:\Python\Day21-30\Day28
```

Example: Creating and Removing Directories



```python
import os
os.mkdir("test_folder")         # Create one folder
os.makedirs("folder1/folder2") # Create nested folders

os.rmdir("test_folder")         # Remove one folder
os.removedirs("folder1/folder2") # Remove nested folders
```

--The End--