

Working with Directory

Working with Directory

- Directories are used to **organize files**.

Python allows you to:

- **Create** a Directory
- **List Directory** Contents
- **Removing** a Directory
- **Getting** or **Changing** Current Working Directory

Working with Directory

Checking existence for directory (folder):

- It is a good practice to **check for the existence of a directory** before performing any operation.
- We can use **“os.path.exists()”** to check if directory **exists or not**.

Types of path:

- **Relative path** - A path relative to the current working directory.
- **Absolute path** - A complete path starting from the root directory.

Create a Directory

Python

```
import os  
os.mkdir("folder_name")
```

- Creates a **single directory** named **my_folder**.
- If it **already exists**, Python raises a **FileExistsError**.

For creating nested directories:

Python

```
import os  
os.makedirs("parent/child/subchild", exist_ok=True)
```

Automatically creates all intermediate folders.

Listing Directory Contents

Python

```
import os  
files = os.listdir("folder_name")  
print(files)
```

- Returns a **list of file** and **folder** names.
- Useful for **iterating** through files for **processing**.

Removing a Directory

Python

```
import os  
os.rmdir("folder_name")
```

- Deletes an empty directory only.
- Raises OSError if the directory contains files.

For removing non-empty directories:

Python

```
import shutil  
shutil.rmtree("folder_name")
```

Use carefully – deletes everything inside permanently

Getting or Changing Current Working Directory

- The “**working directory**” is where Python looks for files by default.

Python

```
os.getcwd()      # Get current working directory  
os.chdir("path") # Change current directory
```

Example

Python

```
import os  
print("Before:", os.getcwd())  
os.chdir("C:/Users/Amar/Documents")  
print("After:", os.getcwd())
```

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Solution

