

In python program, we use `mkdir()` method to create a directory to a specified path. A path is sent as an argument to the `mkdir()` method for the directory folder, it is only required argument to this function.

Syntax of `mkdir()` Method:

```
os.mkdir(path, mode=0o777, *, dir_fd=None)
```

os module	this module provides functions for interacting with operating system. <code>mkdir()</code> function also comes under standard utility modules in python
path	creates directory with named path. <code>FileExistsError</code> is occurred, if the path directory is already present. <code>FileNotFoundError</code> is occurred, if the parent path directory is not present.
mode (optional)	the mode is ignored in some systems
*	shows following parameters (<code>dir_fd</code>) are keyword only parameter
<code>dir_fd</code> (optional)	it's default value is None. <code>dir_fd</code> is ignored, if the given path is absolute.

Example: Create a folder with `mkdir()` in Python

We will create a folder named `mywork`, by passing it as an argument inside the `mkdir()` function.

Source Code

```
import os

os.mkdir("mywork")
print("folder is created successfully")
```

Output

```
folder is created successfully
```

The above source code will create the folder named `mywork` inside the directory from where you run the python file. If you want to change the location of newly created folder, then you can specify the complete directory location as an argument. Let's see the next example how we can do so.

Example: Create a folder at a specific location

if you want to create a folder at a specific location/directory then you have to pass the complete path as an argument.

Source Code

```
import os

os.mkdir("E:\mywork")
print("folder is created successfully")
```

Output

```
folder is created successfully
```

Example: `FileExistsError` exception

This error `FileExistsError` will occur, if you create a directory which is already existed. In the first example, we already created `mywork` directory, let's create it again from the same path and we will see the error.

Source code

```
import os

#this directory is already created
os.mkdir("mywork")
print("folder is created successfully")
```

Output

```
Traceback (most recent call last):
  File "/tmp/user_code.py", line 4, in <module>
    os.mkdir("E:\mywork")
FileExistsError: [Errno 17] File exists: 'E:\\mywork'

[Execution complete with exit code 1]
```

To provide a solution to this error on runtime, we can place a check to find whether a directory is already there or not. We can solve the above issue by using the following source code.

Solution:

```
import os

path = 'mywork'
if not os.path.isdir(path):
    print('The directory is not existed.')
    #create a new directory, if not found
    os.mkdir(dirPath)
else:
    print('The directory is already existed.')
```

Conclusion:

In this article, we have seen how to use `mkdir()` method to create a directory and how we can tackle different error (exceptions) by the use of different example source codes.

