

# Introduction to Computer Programming

## Week 6.2: Importing files from different locations



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## In-class Demos

### *Try it yourself*

#### **Example 1a:**

Create the file structure shown below within a new folder called `lecture_6`.

```
example_w6b/  
├── scripts/  
│   └── my_script.py  
├── fruit/  
│   ├── __init__.py  
│   └── strawberry.py  
├── functions.py  
└── __init__.py
```

***Try it yourself*****Example 1b:**

Add the content shown:

functions.py

```
def letters(word):  
    for w in word:  
        print(w)
```

strawberry.py

```
word = 'strawberry'
```

**Example 1c:**

Within `my_script.py`, use the function `letters` to print the letters of the word 'Python' on separate lines.

Solution: Example 1c

my\_script.py

```
import sys  
sys.path.append('../')  
  
import functions  
  
functions.letters('Python')
```

***Try it yourself*****Example 1d:**

Within `my_script.py`, use the function `letters` to print the letters of the variable `word` imported from `strawberry.py`

Solution: Example 1c

Add directory one level up to path

`my_script.py`

```
import sys
sys.path.append('../')

import functions
import fruit.strawberry

functions.letters(fruit.strawberry.word)
```

Add directory one level up and different directory to path

`my_script.py`

```
import sys
sys.path.append('../')
sys.path.append('../fruit')

import functions
import strawberry

functions.letters(strawberry.word)
```

Renaming and importing individual objects

`my_script.py`

```
import sys
sys.path.append('../')
sys.path.append('../fruit')

import functions as f
from strawberry import word

f.letters(word)
```

In [ ]:

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