

Homework solutions 5

Homework, part 1

- The code below is to be placed in a file called DummyMod.py.
 - What happens if the code is invoked directly (`python DummyMod.py`)?
 - What happens if the code is imported (`import DummyMod`)?

```
"""this is file DummyMod.py
example to show how modules are used"""
MyVar = 'Inside '+__name__
def ShowVar():
    "Show the local variable value"
    print "MyVar is",MyVar

ShowVar()

if __name__ == '__main__':
    MyVar = "test variable"
    print "MyVar is",MyVar
```



Homework, part 1

- The code below is to be placed in a file called DummyMod.py.
 - What happens if the code is invoked directly (python DummyMod.py)?

```
bht3:work toby$ python DummyMod.py
MyVar is Inside __main__
MyVar is test variable
```

note that __name__ is __main__

- What happens if the code is imported (import DummyMod)?

```
bht3:work toby$ python
>> import DummyMod
MyVar is Inside DummyMod
>>>
```

note that now __name__ is DummyMod

```
"""this is file DummyMod.py
example to show how modules are used"""
MyVar = 'Inside '+__name__
def ShowVar():
    "Show the local variable value"
    print "MyVar is",MyVar

ShowVar()

if __name__ == '__main__':
    MyVar = "test variable"
    print "MyVar is",MyVar
```



Homework, part 2

- If we create a 2nd module, a file called DummyMod1.py with this contents:

```
# module DummyMod1.py
import DummyMod
DummyMod.MyVar = 'Inside ' + __name__
DummyMod.ShowVar()
```

- What happens if the code is invoked directly (`python DummyMod1.py`)?
- What happens if the code below is run?
- Does anything change if DummyMod is imported before DummyMod1 in the code below?

```
import DummyMod1
import DummyMod
DummyMod.MyVar = 'Inside ' + __name__
DummyMod.ShowVar()
```



Homework, part 2

- If we create a 2nd module, a file called DummyMod1.py with this contents:

```
# module DummyMod1.py
import DummyMod
DummyMod.MyVar = 'Inside '+__name__
DummyMod.ShowVar()
```

- What happens if the code is invoked directly (`python DummyMod1.py`)?

```
bht3:work toby$ python DummyMod1.py
MyVar is Inside DummyMod
MyVar is Inside __main__
```

Note that the first output comes from loading module DummyMod and the 2nd comes from running DummyMod1.py



Homework, part 2

- What happens if the code below is run?

```
>>> import DummyMod1
MyVar is Inside DummyMod
MyVar is Inside DummyMod1
>>> import DummyMod
>>> DummyMod.MyVar = 'Inside '+__name__
>>> DummyMod.ShowVar()
MyVar is Inside __main__
>>>
```

- Does anything change if DummyMod is imported before DummyMod1 in the code below? -- *no, because DummyMod is imported first thing either way*

```
>>> import DummyMod
MyVar is Inside DummyMod
>>> import DummyMod1
MyVar is Inside DummyMod1
>>> DummyMod.MyVar = 'Inside '+__name__
>>> DummyMod.ShowVar()
MyVar is Inside __main__
>>>
```

