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CS101 Lab-13 Solution Manual Modules and Packages

Task-2

In the second import style, only a single function is selectively imported. Hence other function names are not visible in the importing module.

Task-3

We can use the `append()` method to add a new item to a list.

```
1 import sys
2 sys.path.append('D:\\')
```

Note the `\\` since inside a string two of them represents a single `\`.

Task-4

In Python, the top most file (module) will always have the `__name__` attribute as “`__main__`” and imported modules will have their name same as the file name in which they are saved. So to execute a module as a script only when it is the top file, we can use the following

```
1 .....
2 .....
3 module code
4 .....
5 .....
6 if __name__ == '__main__': #check whether it is the top
7     ..... #Then only execute the following
8     .....
```

For the example

```
1 def matrix_mult:
2     .....
3     .....
4     .....
5 if __name__ == '__main__': #check whether it is the top
6     import random
7     M = [[random.randint(1,10) for j in range(3)] for i in range(3)]
8     N = [[random.randint(1,10) for j in range(3)] for i in range(3)]
9     print 'Matrix 1',M
10    print 'Matrix 2',N
11    print 'M x N',matrix_mult(M,N)
```

Task-5

Python treats a folder as a package only when it contains a `__init__.py` file.