

Walk through previous
lecture

Binary/Octal/Hexadecimal Numbers

- Given a binary number
 - How to convert it to decimal numbers
- Given a decimal number
 - How to convert it to binary numbers
- Same question for other types: Octal and Hexadecimal.

Functions in Python

Syntax:

```
def function_name (parameters) :  
    """ Function documentation goes here """
```

Example: (function_ex1.py)

```
>>> # Function definition is here  
... def printer( p1 ):  
...     """ This function just prints two strings """  
...     print "This prints a passed string into this function"  
...     print p1  
...     return  
... # Now we can call printer function """  
>>> printer ("I'm the first call to printer function!")
```

This prints a passed string into this function
I'm the first call to printer function!

Test Driven Development

- Given a problem
- First write tests for the solution function you want to implement
- Let the test fail
- Implement the actual function that helps the tests to pass

ToDo

- Install setuptools on your machine
- Make sure “easy_install” works on your machine
- Install
 - pytest
 - coverage

Sorting

- Implement a function `mysort`
- Takes a list of n numbers
- Outputs them in sorted order
- First write :
 - `test_mysort()`
- Use `py.test` to discover that test, run it and make sure your test passes

to be continued...