

T eaching L ondon C omputing

# Topic 1.1

## First Python Program



**COMPUTING AT SCHOOL**  
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# Aims

- Writing the first Python program
    - Creating files
    - Comments
    - Layout
  - Using 'print'
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# Python Program

- A program is a document
  - Lives in a file (best to name it with extension .py)

```
print( "hello" )
```

- Much simpler than Java (or C#)
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# Comments

- Comment explain a program

```
# This program prints a greeting  
print("hello")
```

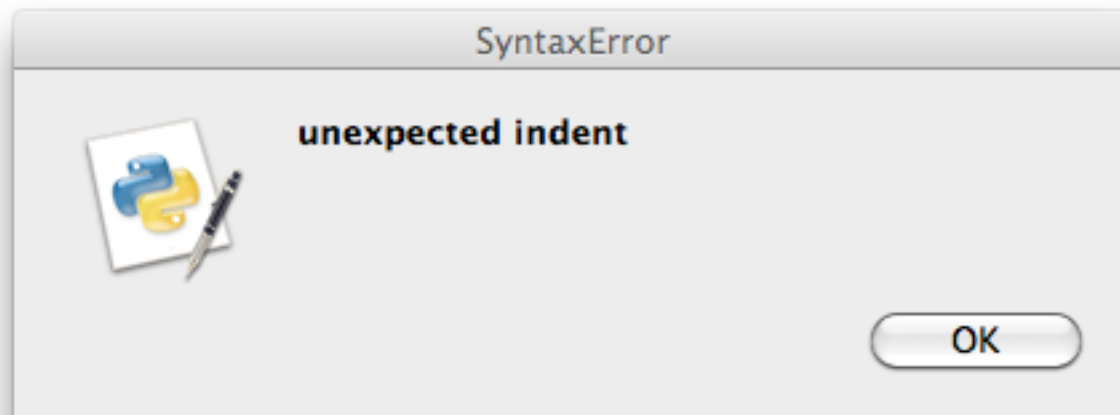
- Comments can be used to help plan a program
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# Layout

- An important feature of Python
- Indentation matters!

Always start in the  
same column

```
greeting-layout.py - /Users/william/Documents/CAS-  
#This program does not work  
print("hello")  
    print("hello again")
```



# The 'print' function

- The 'print' function is used to output strings or numbers

```
print("hello", "world")
```

```
print("hello", 99)
```

- In these examples
    - The print function has two expressions
    - The expressions are printed with a space between them
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# Calculation

- Python can also do a calculation
- Example

```
>>> print("Average is", (30 + 40)/2)  
Average is 35.0
```

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# Input

- A make a flexible greeting program let's ask the name first

```
#Greeting anyone  
name = input("What's your name?")  
print("Hello", name)
```

- The output is (if you type the letter underlined):

```
What's your name?William  
Hello William
```

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# Summary

- A Python program is a file containing statements
  - Simple!
- ‘print’ for output
  - String and numbers

## Note

- Think of print and input as a **commands** or instructions
  - Properly, they are called functions
  - We will soon meet other functions
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