Variables

Think of this like a box to store something. Its an area of the computers memory to store words, or values etc.

```python
# String Variables - this is text
name = "Paul"
film = "2001 Space Oddesy"
car = "VW"

print(film) #print out to the consolse below
```

```
2001 Space Oddesy
```

```python
# number variables
n = 30
age = 48
money = 3.26     #  covert into   "3.26" to print

notmoney = "4.50"  # this is not a number, its a string of text and cant be used for calculatid

print(age)

#if you want to print with a string character, we must change the number into a string.
print( "£" + str(money))
```

```
48
£3.26
```

Arithmatic

Python can perform many different calculations.

```python
a = 5
b = 6
c = a + b     # add 5 and 6

print(c)
```

```
11
```

```python
d = 0.2
e = 2.3
f = 1.4
g = d+e+f
print(g)
```

```
3.9
```

You can work with different opperators

add + subtract - divide / multiply * brackets () powers ** modulo %

```python
a = 5
b = 2
```

```
#remeber BIDMAS or BODMAS

print(a * b)
print(a / b)
print( a + b * b)      #this will do b * b first then add a
print( (a + b) * b )  #add a and b first, the times by b
print( a**2 )   #this is a squared, a to the power of 2
```

The next part is optional but useful to know.

```
#modulo is the remainder

a = 5
b = 2

print(a%2)
#this means if you divide 5 by 2, there will be 1 left over
#2 goes into 5 two times, with 1 left. This is the modulo

#you can use it with time
time = 15
h = 12

print(time % h)
#this will print 3, as 15 / 12 is 1 remainer 3. This is converting 24 hour in 12 hour clock.
```

1
3