16 Au	124
(1)	PyCharm - application - to do Python
	Py Charm - application - to do Python (Community edition) - Editor, File tree, Output, Console Programming
(2)	Book: Learning Programming with Athon?
(3)	
	Basic expressions - integers, florts, datatypes strings
HW:	Finish last class HW
	_ 3.expressions file also

21 Aug 29 integers, floats, stowngs 23, 42,-64 23.1,43.0,-61.7 "This" Datatypes calculations Simple Expressions -s 3+4+5 (mt) 42.6+ 53.2 (+1 set -> 'this' + 'is'

Operator:

+
$$\rightarrow$$
 addition 3th = 7
- \rightarrow subtraction 10-4=6
** \rightarrow multiplication 20*4=80
(asterisk) division 20/4=5
(slash) 21/4=5.25
// \rightarrow int. division 21/4=5
(gustient) 21/4=5
(nemainday) 4**6=46
= $4\times4\times4\times4\times4\times4\times4$
 $4*6=4\times6=4+4+4+4+4$
 $4*6=46=4\times6=4\times4\times4\times4\times4$

```
Empty Space:
 Same -> 3+4, 3, + 4, 3
   Type casting:
int-) floot: 30+42-3 = 30.0 + 42.3 = 72.3
int floot that that
           30 + inf(42.3) = 30 + 42 = 72
              "Result is"+(42*63)
                    = "Result is + 2709
  = Result is 2709
stv-) int ('24') = 24; int ('3c4k') => error
```

String operators? 3 x 'Pig = BgPigPig Pig + Car = Pig Car HW: Ch.3 textbook -> Create a progrem file -s Type everything that is in the text book Play with operators, expressions, type casting Maths class HN+,-,*, (10 for each) do all of those in python and verity (create a program called Math HW)

09 Sep 24 Operator precedence (order): 3 + 4 - 6 × 14 / 2 + 3 × (4-1)-float (24) (2) 4+412 = 8/2 X 24+2 Brackets, of, division, multiply, add, subtred _ parantheses, exponential, multiplication,
() (power) division, add, subtract Python

Variables: A place where you store values.

You can give any name to a variable. Exi my Van = 43 Voorisble names can not by pythos keywords -> myVar + 23 -> my Var & 2 - Eg: for, in, true, false x= < some value > Assignment operator

HW: (1) Read all previous class rates

(2) Ch. 4 code type into a program

file and run

19 Sep¹ 24
Ch.4 variables:
-s Can u name a varieble as print!?
Yes. But after that, regular print function
will not work
-> How to block comment?
select all the lines you want to comment
and press 'CtVI+/
- same for uncommenting
J HW: (1) Swapping examples practice-write
Jim has 23.56 grams of tomaties, while Tom has 43.642 grams of beans. They exchange their vegetables. Do this in
exchange their veget-coles. Do this in
pythan as shown in class example.

n = 'expr' this expression is computed Then 'x' variable is assigned computed value. n= 2; Y= X*5+2; (Here 'x'is2, 'y'is/2) 91= 21+yx2 2+24 After this step, a is 26, y is 12 26-12 9=2-12; Abter this step, x is 26, y is 14.

The After each of these steps, manually compute the values of all variables; Check in My 2 2; y= 3 python also by pointing the values. (1) Z = n+y; (27 y= x-y; (3) n= 2×4+2-14; (4) = 15 j (5) x = x+y-2;

25 Sep 24 For Maths abuthmetics - +, -, 1, 4 we learnt how to verify '==' operator - equality operator print ('expr)' = = 'expr 2) print true if exprland ane equal else prints telse Sum = 23+42 porint (sum - 23 = = 42) product = 23 442 paint (product 1/41 == 23)

-3 différence = 23-42 print (différence + 42 == 23) HW: For previous meths withmetics hw, verify each answer like in class example ande. Add, Multipliations only one way to verity difference = a-b; difference to == a Verity in two ways

sum=arb; sum-a==b

sum-b==arb dividend/division = quotient; quotientidivision divident/division = remainder + remainder divident product ===b|
product/2==b|
product/b==a

01 Oct 24

Boolean data lype: —) Has only two values 'true' or '-false'
Integers can have intritely diff- values - 43,-34,0,46,53... Floats 11 11 11 11 11 -2.3, -7.9, 796432 -> Equality operator results in a boolean value (expV | == expV L) is true or false you can create boolean voriebles my Bodean = (expr) = = expr2)

== equality operator (expr1 == expr2) gives 'true' if they are equal gives 'false' if hat equal != (not eghal operator) (expr) != expr \(\) gives true if they are not equal. =) HW: For the previous Arithmetic operations, use varieble names for all values - like in the addition example from class. Copy code for all other additions. Same for -, *1/.

Give examples for == \(\xi \) != if

>	Briefly	booked at AI to summorize
	class	material, notes, texts etc.