

python notes

today we learn some basics in python so i write this down so i dont forget later

data types (very important)

int

- whole number like 1 4 67
- used for counting stuff or math

float

- number with dot like 3.14 or 7.0
- python treat 7.0 as float even if it look whole

string (str)

- text basically
- like "hello world"
- u cant do "text" + 5 it breaks the code
need to turn 5 into string first: `str(5)`

bool

- only True or False
- used in if statements alot

i still mess these up sometimes but im getting better lol

variables (kinda like boxes)

variable is a name where u throw in some value
python dont need you to say what type it is before

example:

```
name = "Laura"  
age = 16  
price = 9.99  
is_tired = True
```

later you can print them or use them in math
but be careful cuz python is sensitive to spaces and stuff

conditions (if stuff)

if lets python choose what to do
very important u indent (tab) inside the if or python gets mad

```
if age >= 18:  
    print("adult")
```

if else

```
if age >= 18:  
    print("adult")  
else:  
    print("not adult")
```

elif (else if but shorter)

```
grade = 73  
  
if grade >= 90:  
    print("A")  
elif grade >= 80:  
    print("B")
```

```
elif grade >= 70:  
    print("C")  
else:  
    print("below that")
```

my teacher say try not to make too many elif or it looks ugly but idk

nested if (if inside another if)

kinda confusing first time but makes sense

```
age = 20  
hasID = False  
  
if age >= 18:  
    if hasID:  
        print("ok you enter")  
    else:  
        print("no id no entry")  
else:  
    print("too young sorry")
```

im trying to keep it clean but nested if can look like a staircase haha

random extra notess

- python dont like mixing types like string + int
- print() always has () dont forget
- spacing matters too much
- i keep forgetting colon : after if
- booleans start with capital letter True False (weird but ok)

Updating soon

:)