

By Attreyee Mukherjee

GETTING STARTED WITH python



Hi, I'm Attreyee!



About Me



A passionate programmer who loves sharing knowledge and teach programming.

I am currently working with core Linux Kernel.

Hope y'all would like the session!



Why learn Python?



Why learn Python?



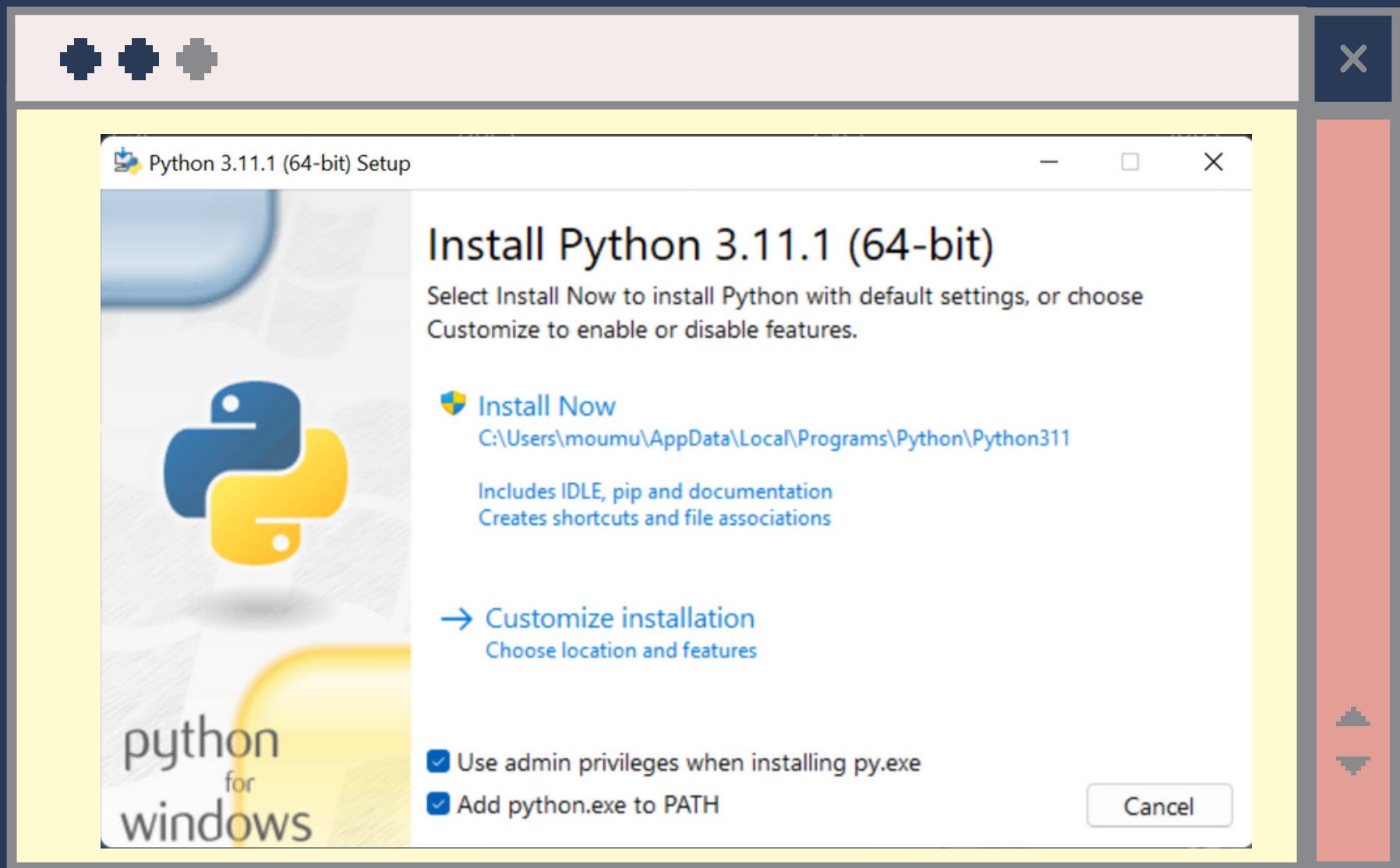
Are You Ready?

Yes

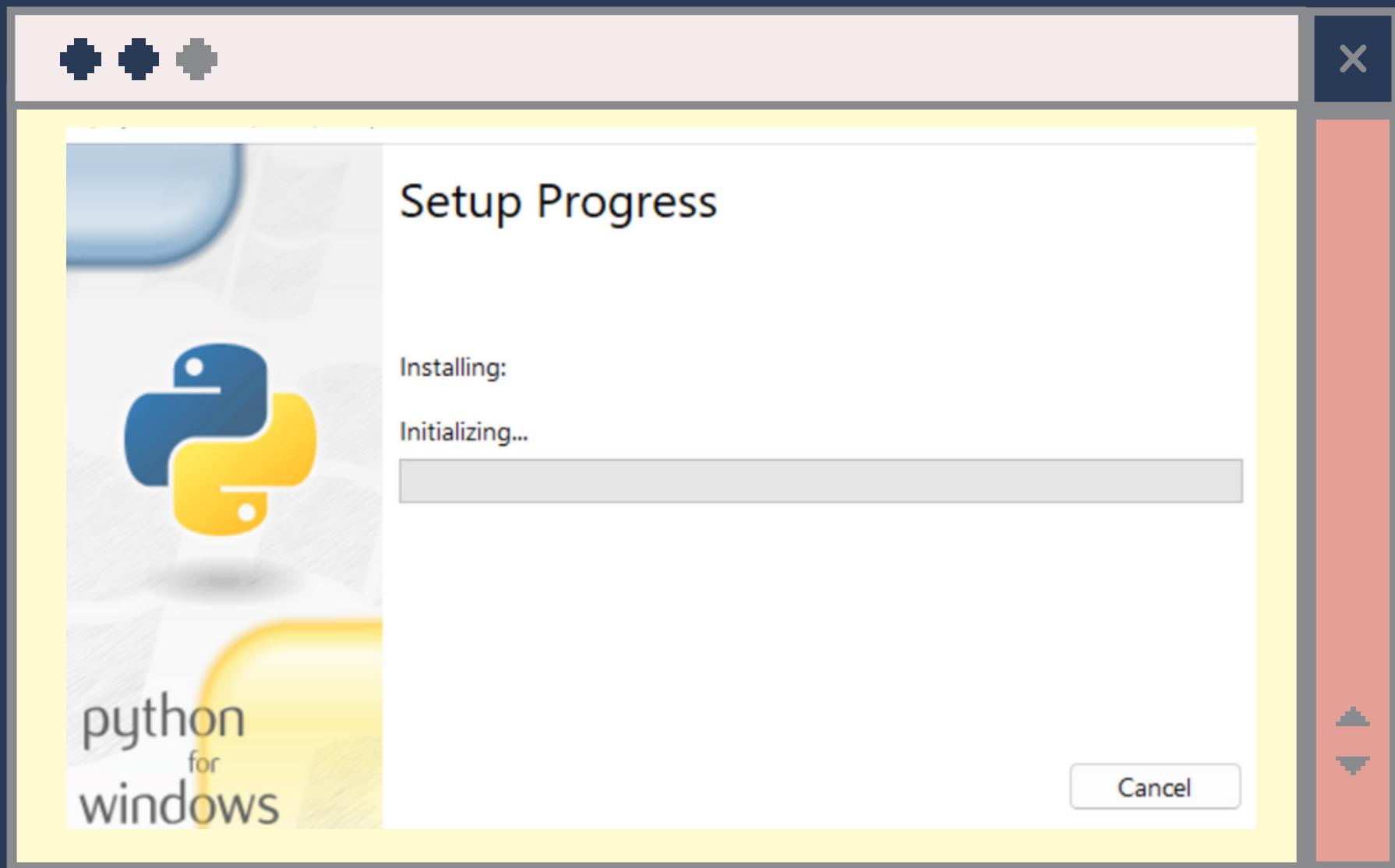
Go !



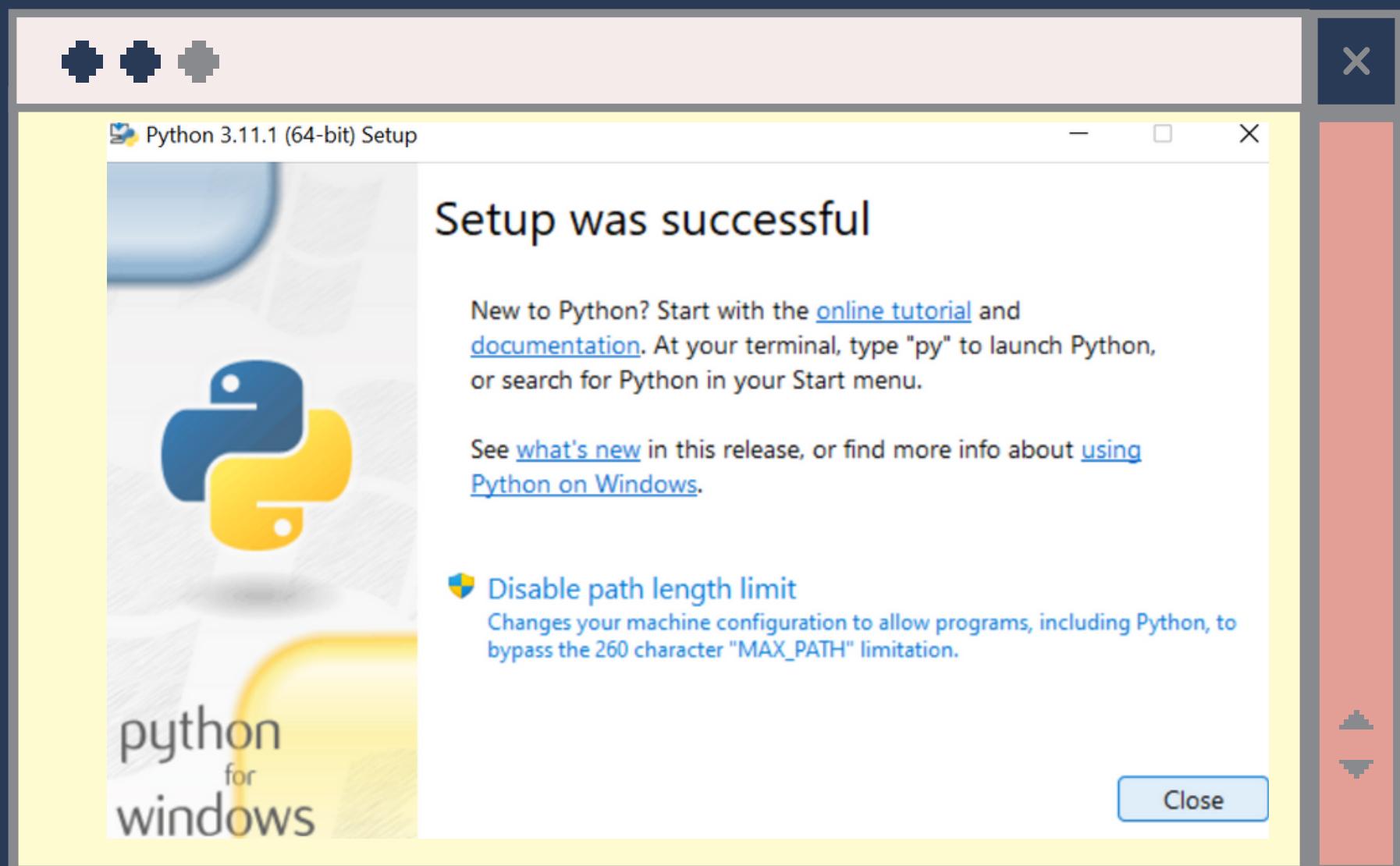
Installation



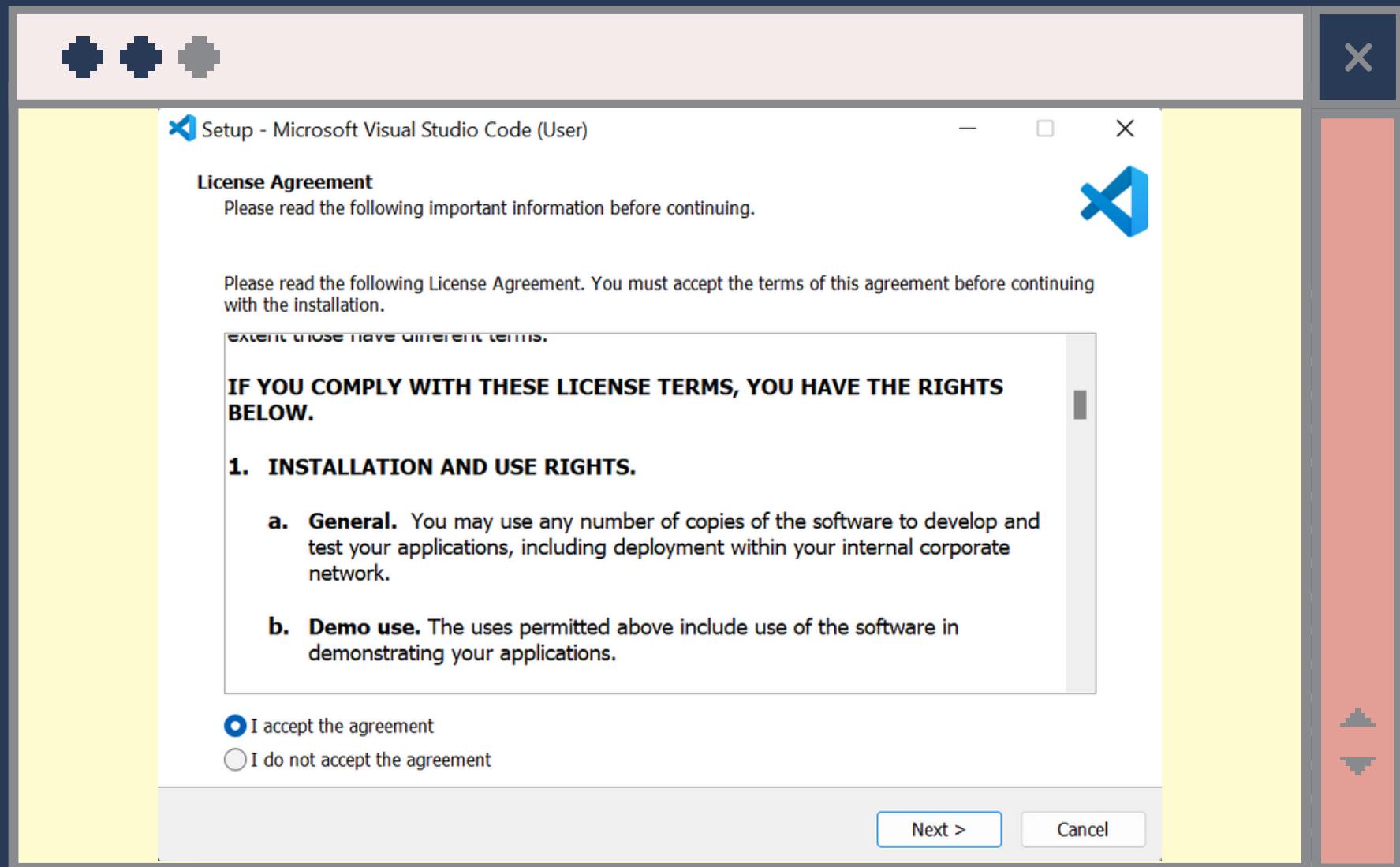
Installation



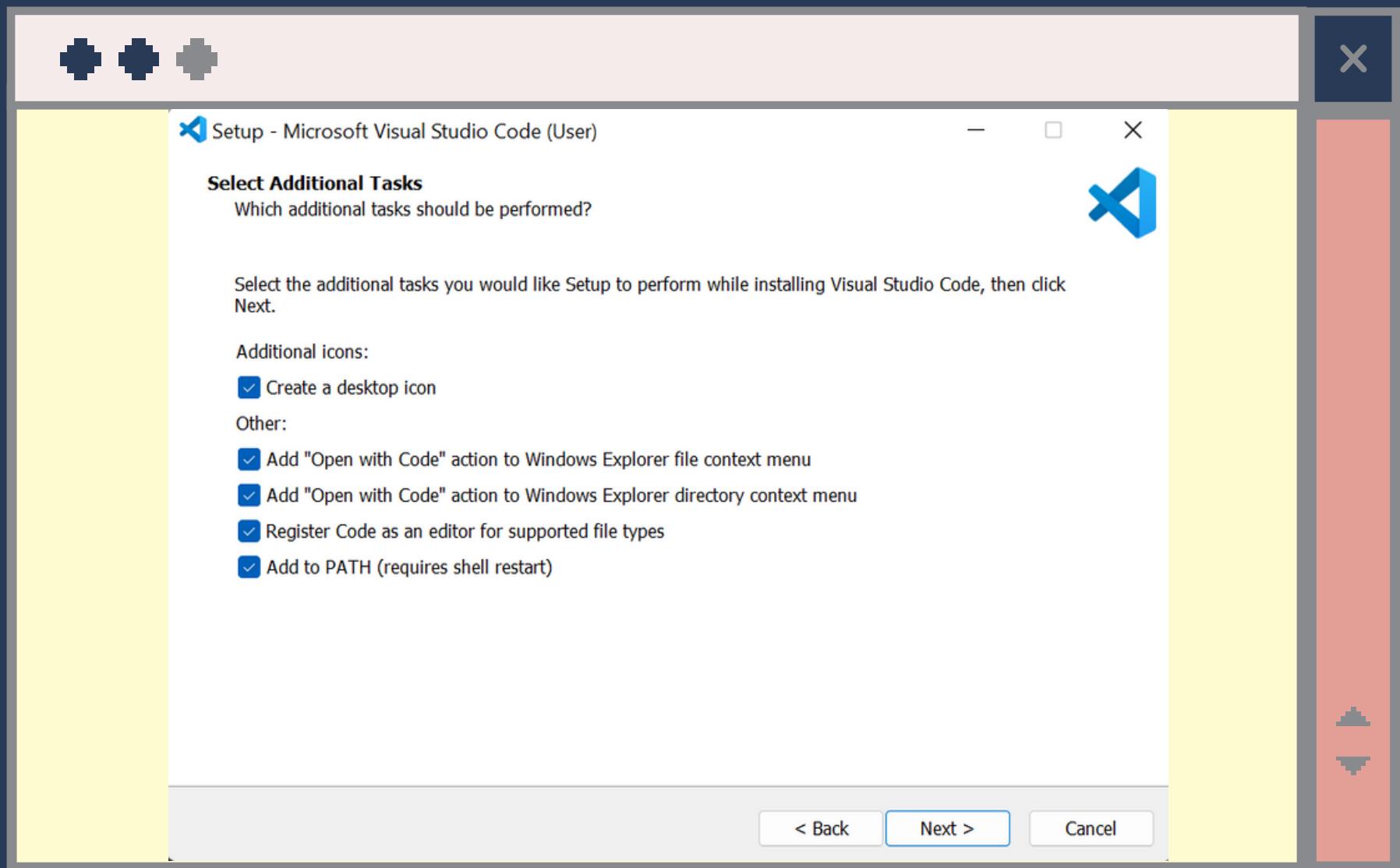
Installation



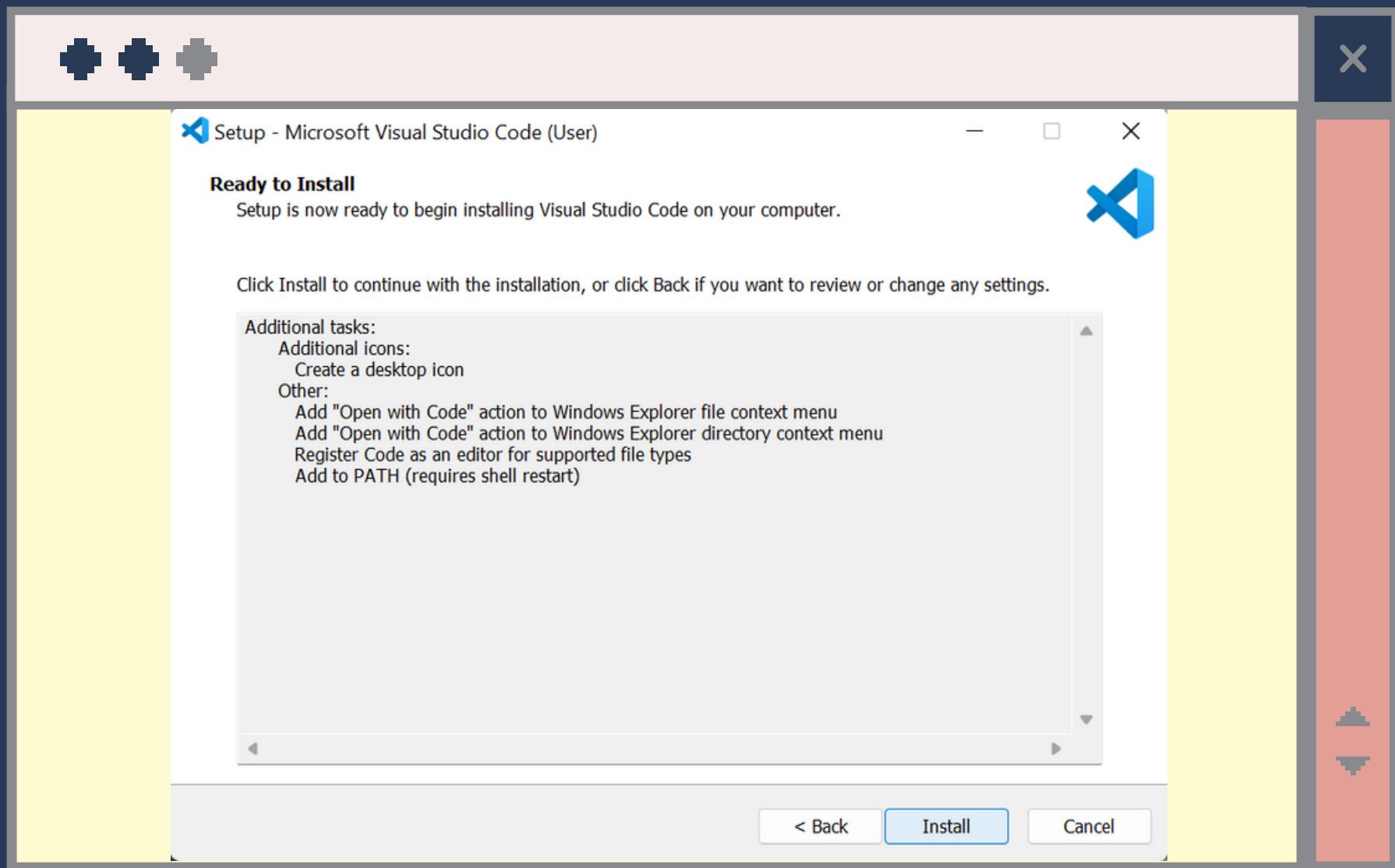
Installation - VS CODE



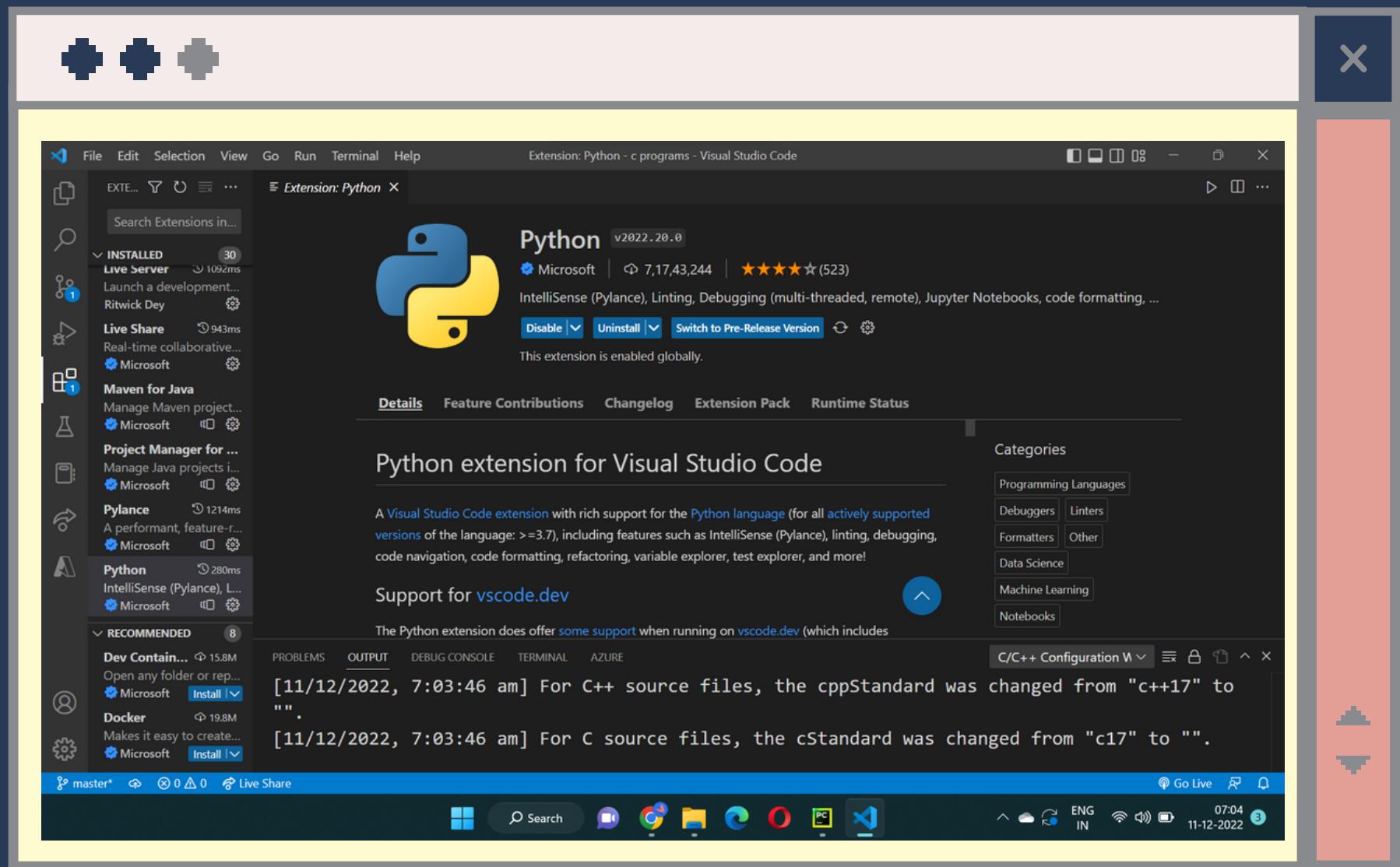
Installation

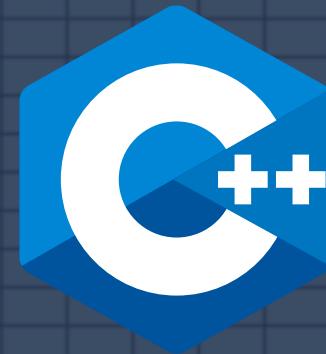
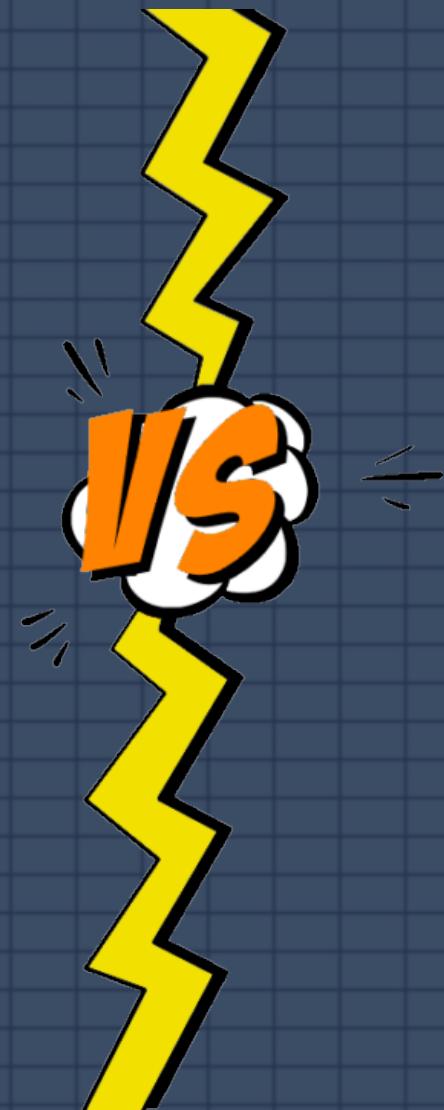


Installation



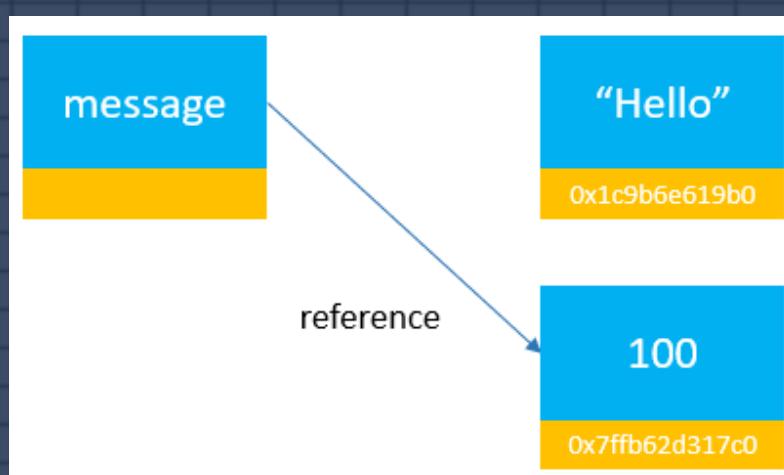
Installation







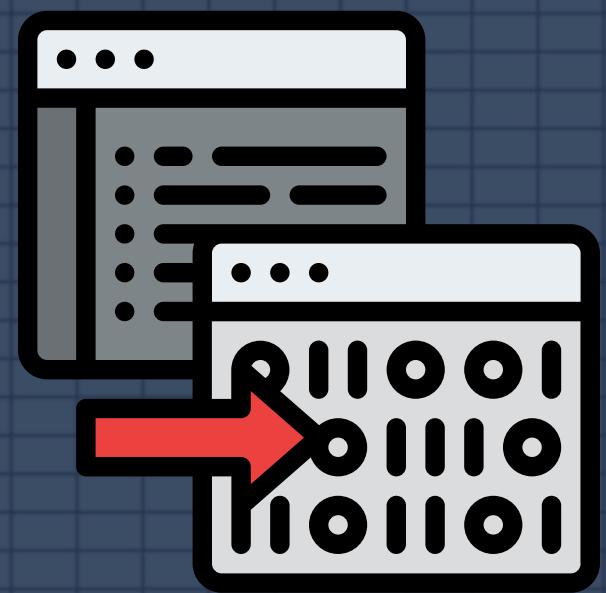
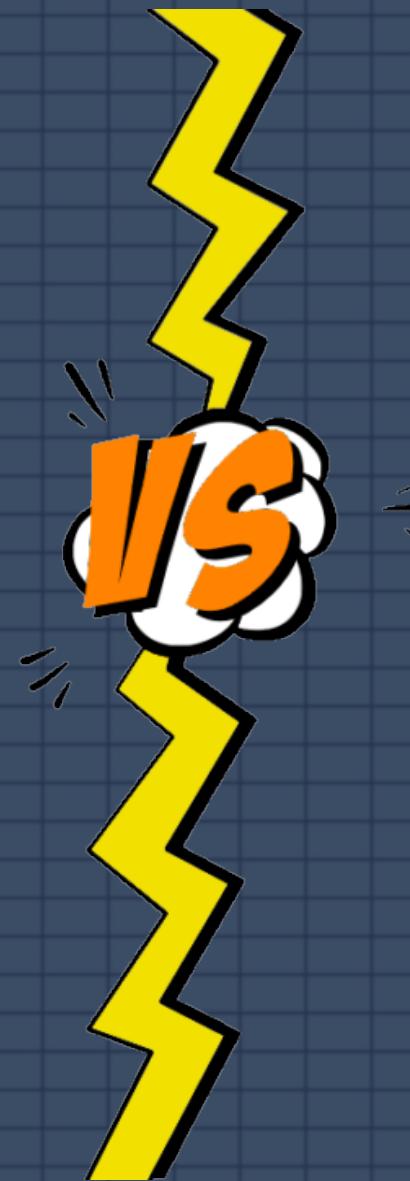
DYNAMICALLY TYPED



STATICALLY TYPED

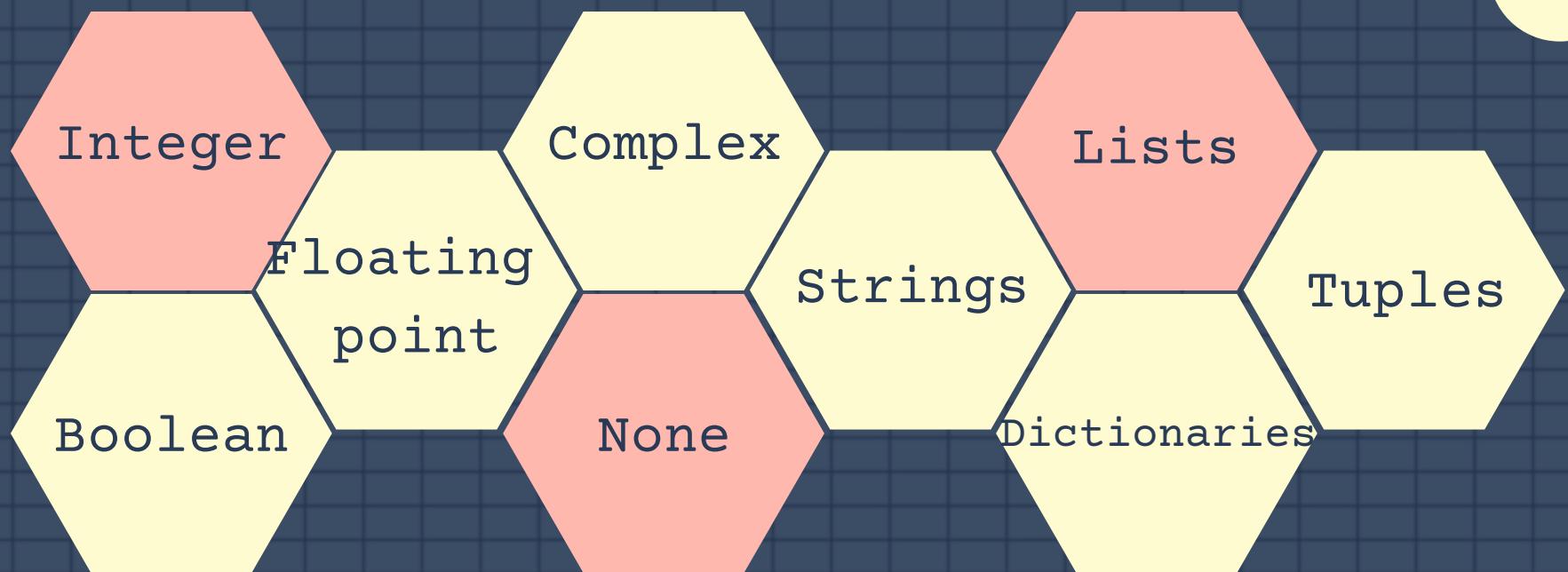
Computer Address	Content	Programmers Name	Type	Value
90000000	00			
90000001	00			
90000002	00			
90000003	FF			
90000004	FF			
90000005	FF			
90000006	1F			
90000007	FF			
90000008	FF			
90000009	FF			
9000000A	FF			
9000000B	FF			
9000000C	FF			
9000000D	FF			
9000000E	90			
9000000F	00			
90000010	00			
90000011	00			

Note: All numbers in hexadecimal



Data Types

A data type, in programming, is a classification that specifies which type of value a variable has



TYPES OF DATATYPES

MUTABLE

IMMUTABLE

LISTS

DICTIONARIES

SETS

TUPLES

INTEGERS

FLOATING POINT

NO . S

BOOLEANS

STRINGS



OPERATORS

X

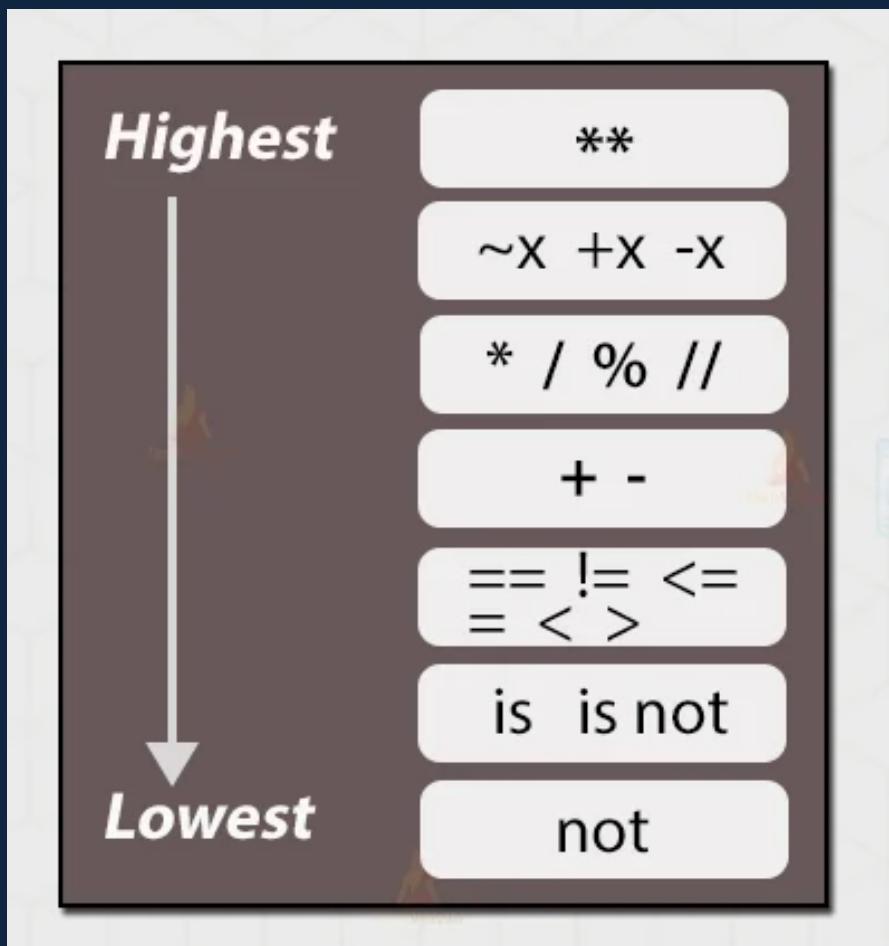
- Arithmetic operators
- Assignment operators
- Comparison operators
- Logical operators
- Identity operators
- Membership operators
- Bitwise operators





OPERATOR PRECEDENCE

X



Boolean Logic

THE OR OPERATOR

X



Y



X

X

Y

Y

Boolean Logic

THE AND OPERATOR

X



Y



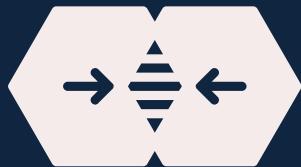
Y

Y

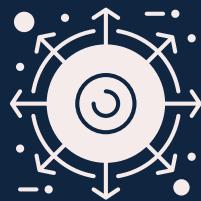
X

X

TYPE CASTING



IMPLICIT TYPE CASTING



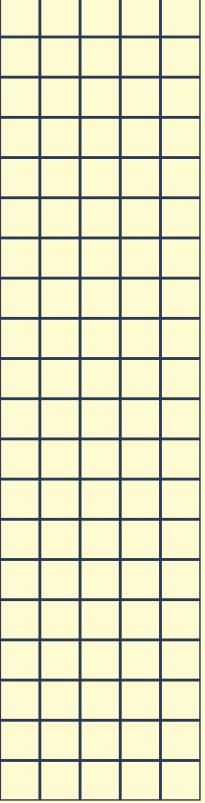
EXPLICIT TYPE CASTING

CONDITIONAL STATEMENTS



ITERATION





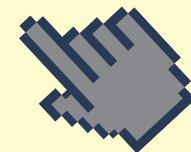
INDEXING IN PYTHON



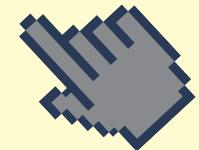
1	6	91	121	14	8	71	188	10
---	---	----	-----	----	---	----	-----	----

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

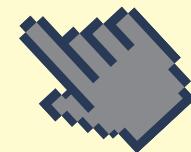
STRINGS



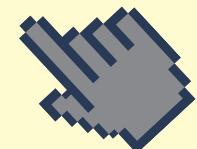
LISTS



TUPLES

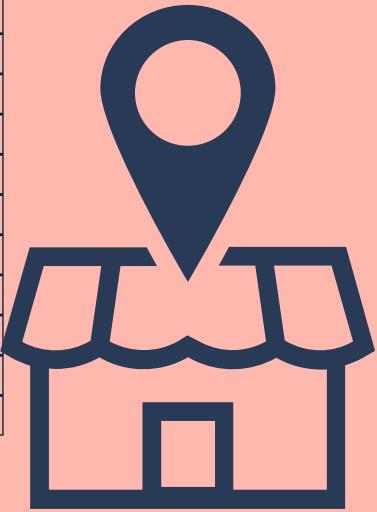
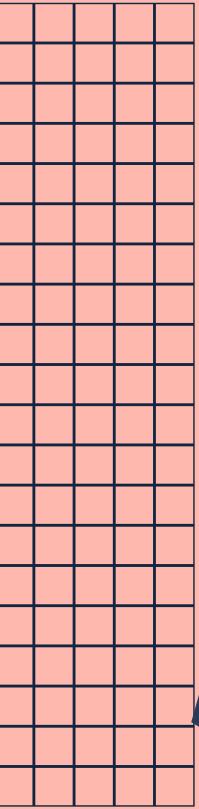


DICTIONARIES



FUNCTIONS





FUNCTIONS



USER DEFINED



INBUILT FUNCTIONS

MATH MODULE



import math

X



ARITHMETIC

factorial()
ceil()
floor()
trunc()

PI

TAU

EULER'S

INFINITY

NAN

POWER

pow()
exp()

LOGARITHM

log()

$$f(x) = ax^n$$



OTHER

gcd()
fsum()
sqrt()
hypot()

Real Python



Thank You

See You Next Time