Variable Assignment

temporarily store data	x = 5
	x = 'one'

Calculations :

sum	y = x+2
Subtraction	y = x-2
Multiplication	y = x * 2
Exponentiation	y = x ** 2
Remainder	y = x % 2
Division	y = x/2

Comparison Operators

x< y	Less
x <= y	Less or eq
x > y	Greater
x >= y	Greater or eq
x == y	Equal
x != y	Not equal

Type Conversion

str()	'5', '3.45', 'True'
int()	5, 3, 1
float()	5.0, 1.0
bool()	True, True, False

string methods

my_string.upper()	String to uppercase
my_string.lower()	String to lowercase
my_string.count('w')	Count String elements
my_string.replace('e', 'i')	Replace String elements
my_string.strip()	Strip whitespaces

functions

```
def user(name):
        pri nt(”Hi {name}”)
user(“n”)
```

string

my_string = 'thisString'	
my_string * 2	'thisStringthisString'
>>> my_string + 'isnew'	'thisStringIsnew'
't' in my_string	True

lists

Lists numbers = [1, 2, 3, 4, 5]	
numbers[0]	returns the first item

lists

numbers.append(6)	# adds 6 to the end
numbers.remove(6)	# removes 6
numbers.insert(0, 6)	# adds 6 at index position of 0
numbers.pop()	# removes the last item
numbers.clear()	# removes all the items
numbers.index(8)	# returns the index of first occurrence of 8
numbers.sort()	# sorts the list
numbers.copy()	# returns a copy of the list
numbers.reverse()	# reverses the list

Statements

```
If Statement
if expres sion:
    sta tements
elif expres sion:
      sta tements
else:
    sta tements
While Loop
while expres sion:
    sta tements
For Loop
for var in collec tion:
    sta tements
Counting For Loop
for i in range( start, end [,
step]):
      sta tements
```

Exception Handling

```
try:
    sta tements
except [ exception type [ as var
] ]:
    sta tements
finally:
    sta tements
```


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