

Python IDLE Shell

1. Press the Windows Key
2. Type "Python IDLE"

How to create a new Python file

1. In the Python Shell, click File Tab
2. Click New File

Print Statements

```
print("Hello")
Hello
print(4+5)
9
```

Function Definition

```
def name (arg1, arg2, ...):
    statements
    return expr
```

Boolean Operators

`x is y` `x not y` `x and y` `x or y`

List Operations

`list.append(a)` Append *a* to *list*

`list.insert(i, a)` Insert *a* before *i*th item in *list*

`list.sort()` Sort *list*

`list.pop(i)` Remove *i* th item in *list*

Data Types

Integer -256, 15

String "Hello", "apple"

Boolean True, False

List [*value*, ...]

Tuple (*value*, ...)

Conversion Functions

`int(expr)` Converts *expr* to integer

`str(expr)` Converts *expr* to string

Arithmetic Operators

<code>x + y</code>	add	<code>x - y</code>	subtract
<code>x * y</code>	multiply	<code>x / y</code>	divide
<code>x % y</code>	modulus	<code>x ** y</code>	x^y

Comparators

`x < y` Less

`x <= y` Less or equal

`x > y` Greater

`x >= y` Greater or equal

`x == y` Equal

`x != y` Not equal

String / List / Tuple Operations

`len(s)` length of *s*

`s[i]` *i*th item in *s* (starts from 0)

`s[start : end : step]` slice *s* from *start* (included) to *end* (excluded) with increment *step*

`s + t` concatenate *s* with *t*

Statements

If Statement

if *expr* :

statements

elif *expr* :

statements

else:

statements

While Loop

while *expr* :

statements

For Loop

for *var* in *collection* :

statements

Counting For Loop

for *i* in range(*start*, *end*, *step*):

statements

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