

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

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

String / List / Tuple Operations

<code>len(s)</code>	length of <i>s</i>
<code>s[i]</code>	<i>i</i> th item in <i>s</i> (starts from 0)
<code>s[start : end : step]</code>	slice <i>s</i> from <i>start</i> (included) to <i>end</i> (excluded) with increment <i>step</i>
<code>s + t</code>	concatenate <i>s</i> with <i>t</i>

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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