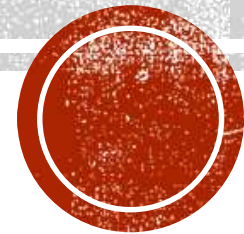


PYTHON BASICS



PROGRAM COMPILE

```
#include<stdio.h>

int main()
{
    printf("My First Program");
    return 0;
}
```

hello.c

1

Source

```
c:\ gcc hello.c
```

2

Compile

```
00000100
11001000
11001010
10101010
10010010
1
```

3

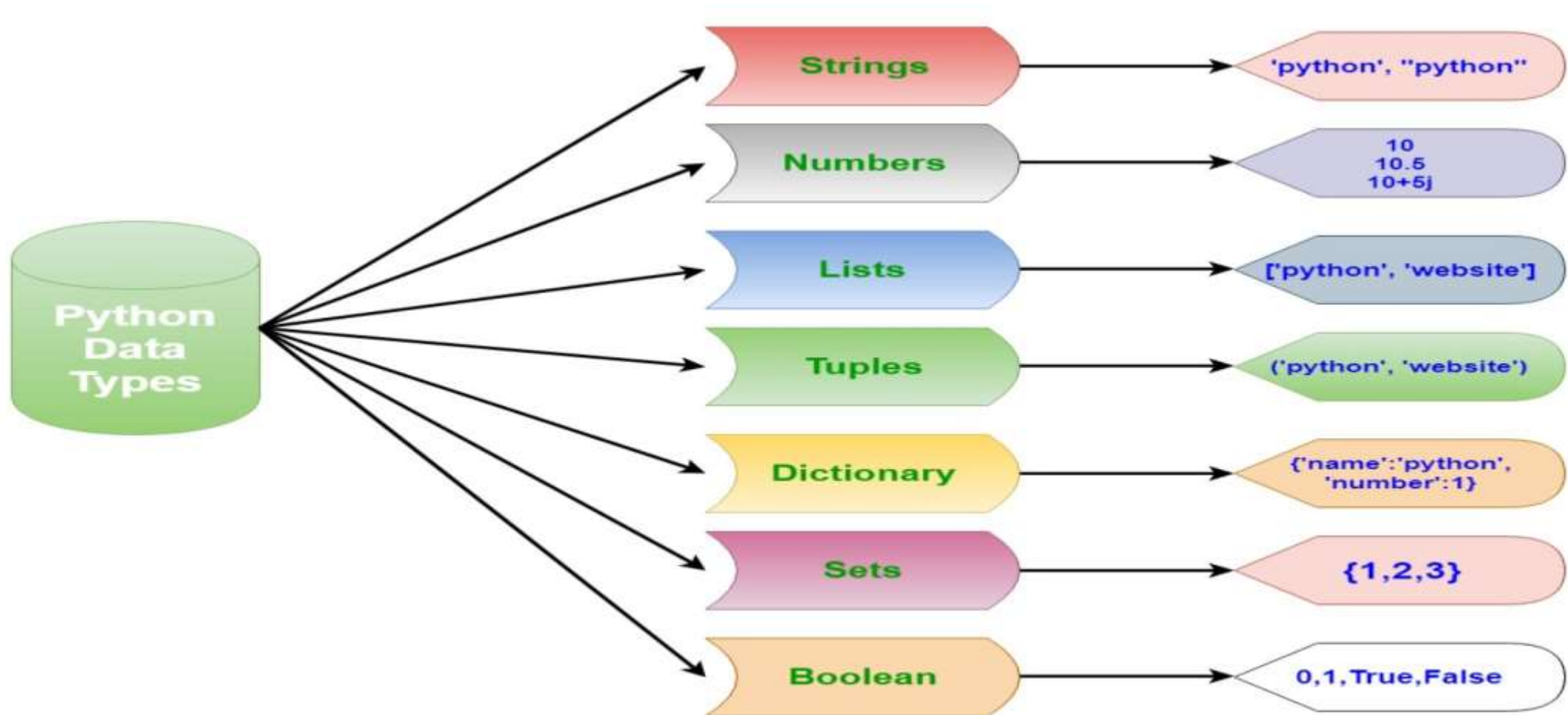
Execute



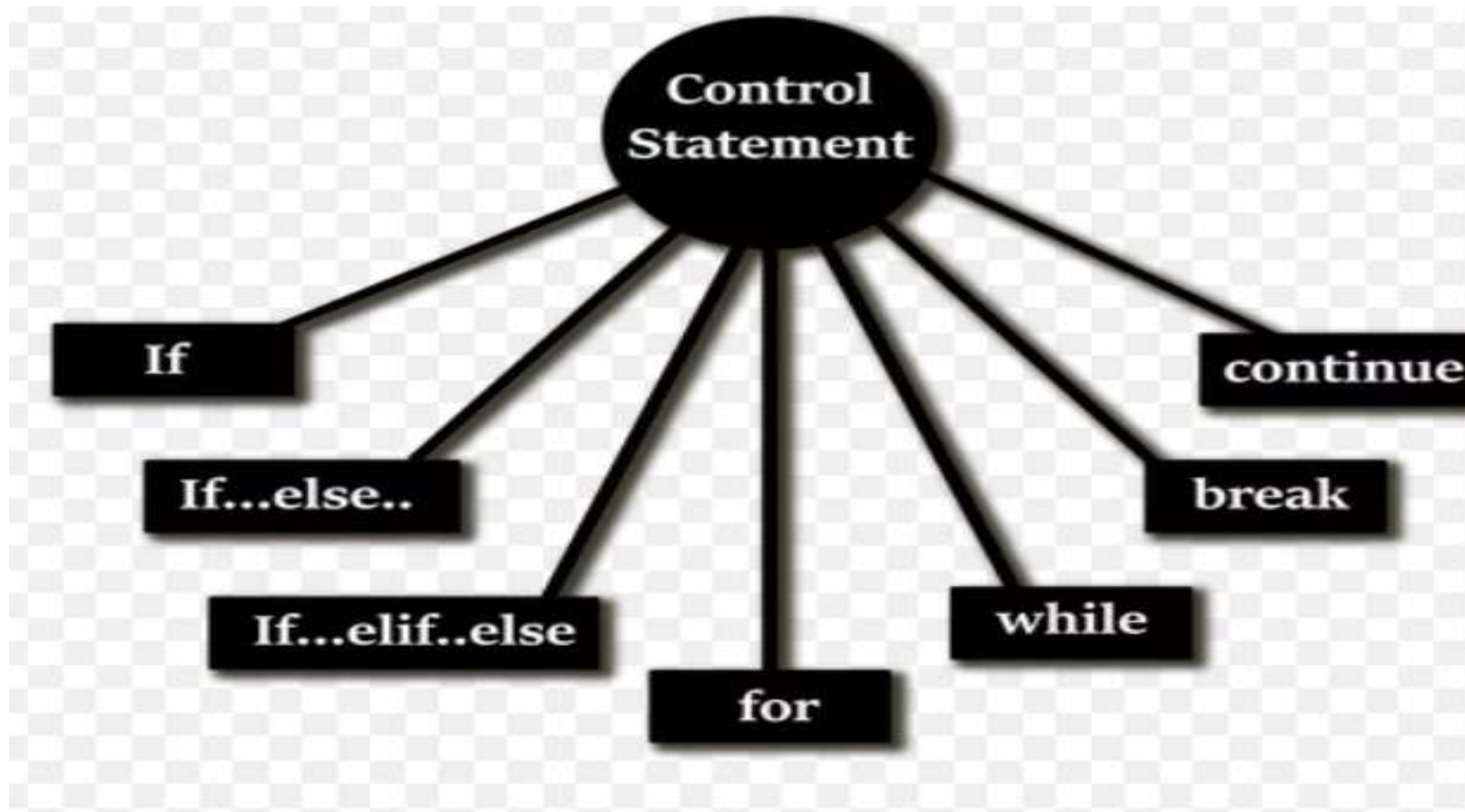
PROGRAM EXECUTION



PYTHON DATA TYPES



PYTHON STATEMENTS



PYTHON INDENTATION



INDENTATION EXAMPLE

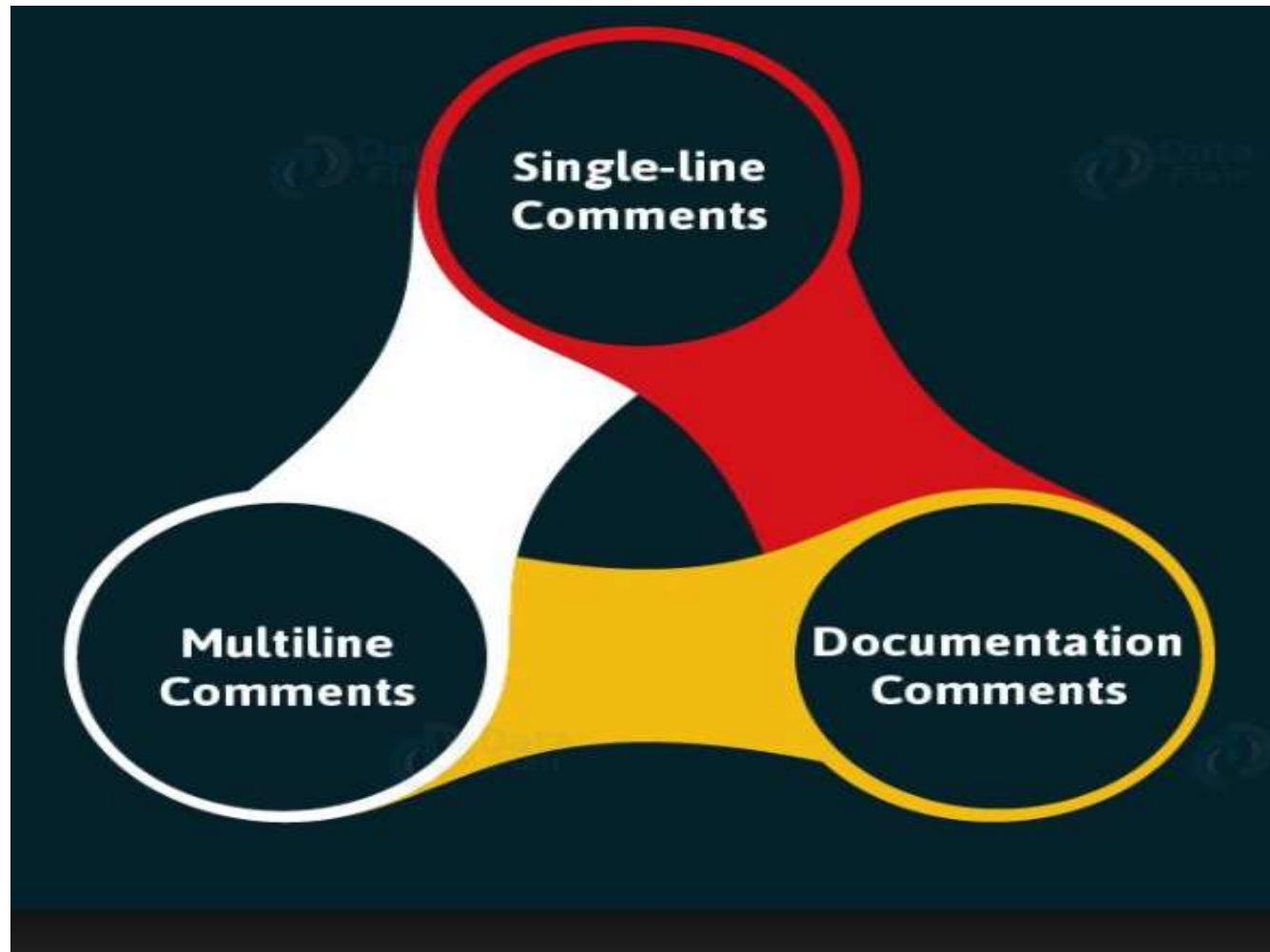
```
1
2 for item in range(10):
3     print('I')
4     print('am')
5     print('a')
6     if item % 2 == 0:
7         print('funny')
8         print('and')
9         print('silly')
10    else:
11        print('dull')
12        print('and')
13        print('serious')
14    print('block')
15    print('used')
16    print('as')
17    print('example.')
18
19
20
21
```



LOOPS



TYPES OF COMMENTS



FILE INPUT & OUTPUT

File I/O

Input is **reading** from a text file

```
fromFile = open("textName.txt", 'r')
```

Output is **writing** to a text file

```
toFile = open("textName.txt", 'w')
```

They both take two strings as
input parameters



PYTHON LIST EXAMPLE

```
z = [3, 7, 4, 2]
```

```
z[1] = "fish"
```

```
print(z)
```

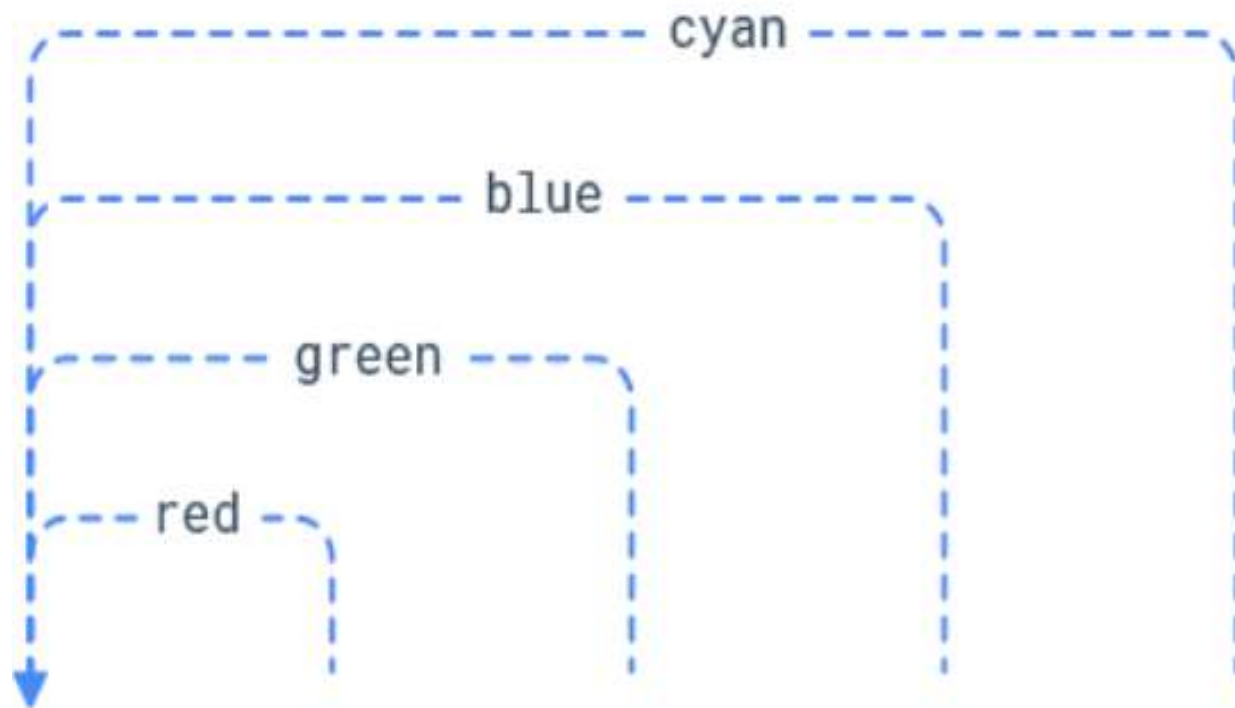
```
[3, 'fish', 4, 2]
```



PYTHON LIST



PYTHON TUPLE



```
T = ('red', 'green', 'blue', 'cyan')
```



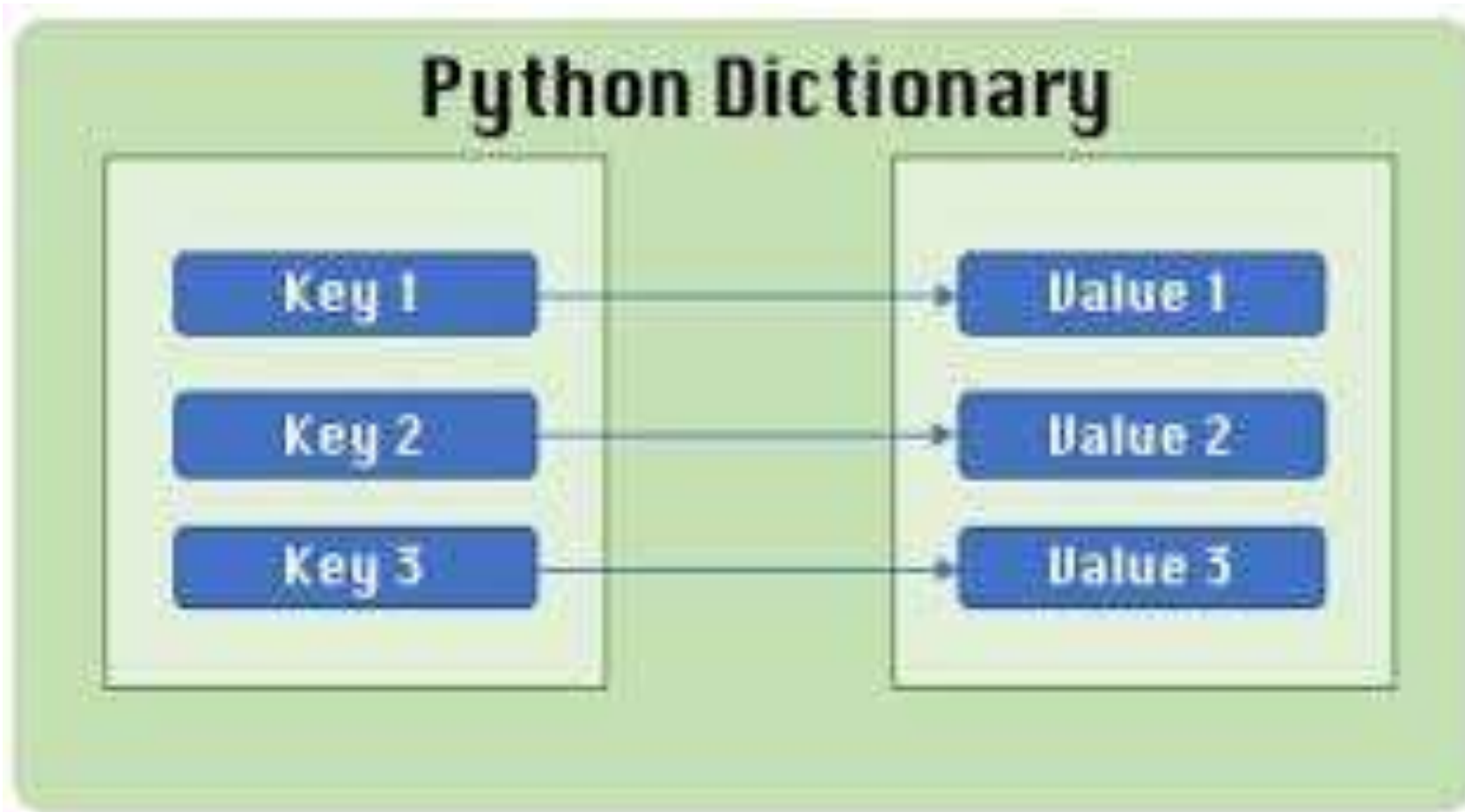
PYTHON SET



```
set={1,2,3}
```



PYTHON DICTIONARY



PYTHON DICTIONARY EXAMPLE

Python Dictionary

```
py_dict = { 1: 'Apple', 2: 'OnePlus' }
```

Diagram illustrating the structure of a Python dictionary:

- The dictionary is represented as a set of key-value pairs: `{ 1: 'Apple', 2: 'OnePlus' }`.
- Each pair is labeled as an "Item" (Item 1 and Item 2).
- For each item, the first part is the "key" and the second part is the "value".
- Item 1 has key `1` and value `'Apple'`.
- Item 2 has key `2` and value `'OnePlus'`.

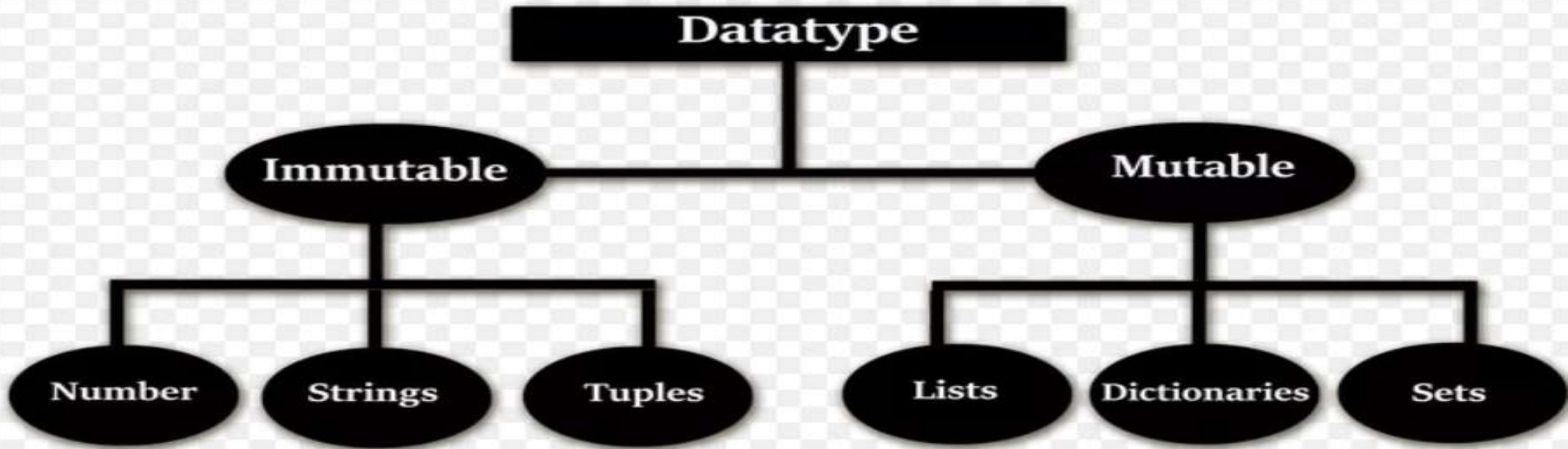


IMMUTABLE

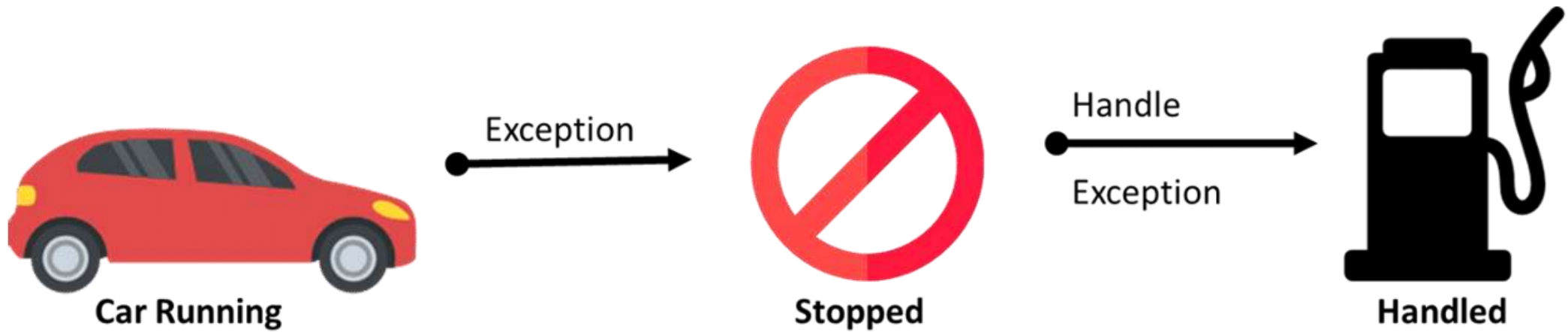


Immutable Object

MUTABLE & IMMUTABLE



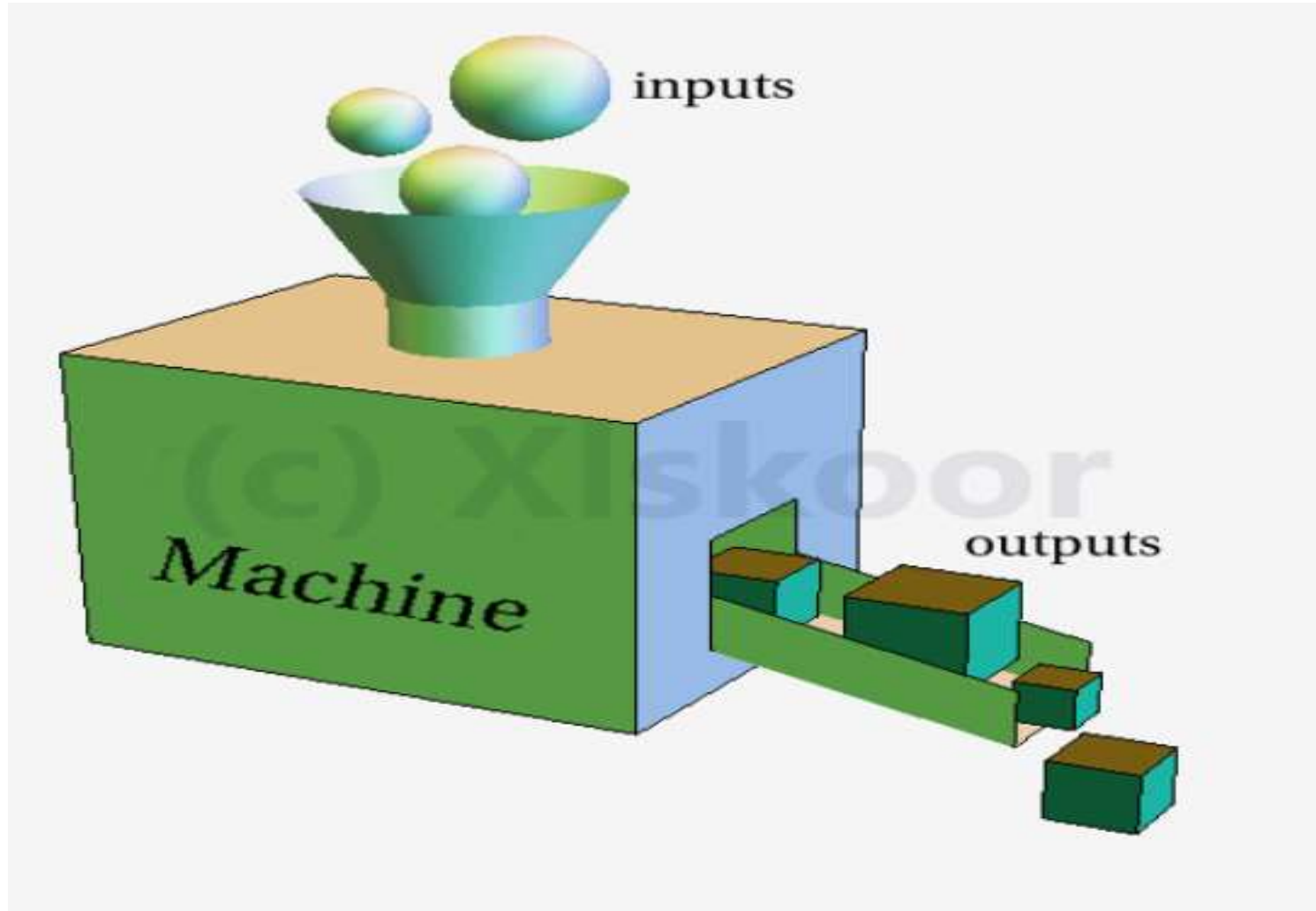
EXCEPTION HANDLING



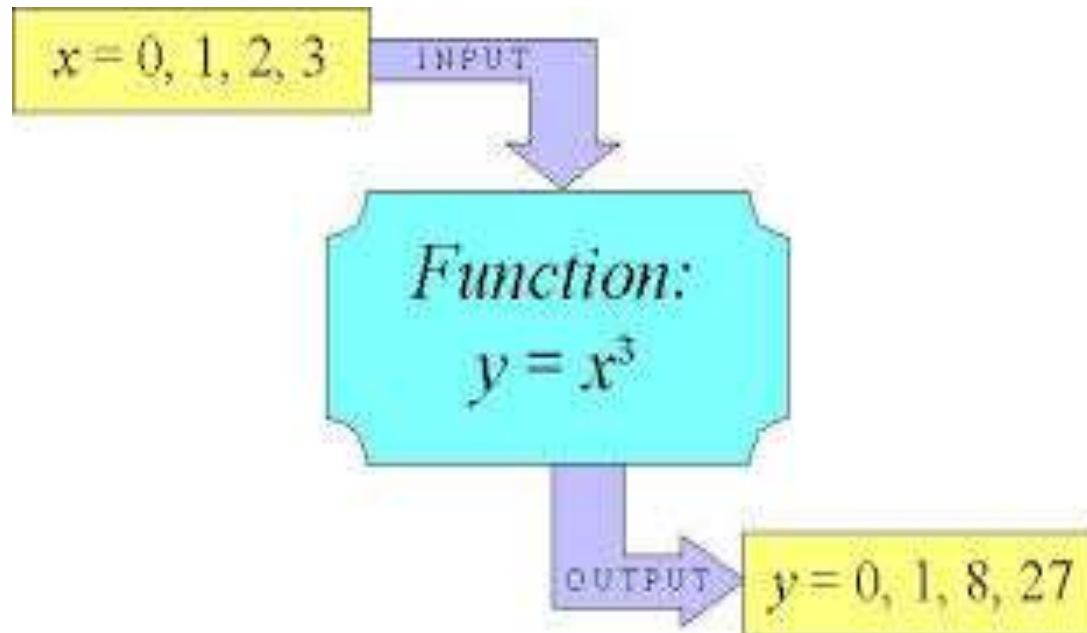
PYTHON EXCEPTION HANDLING



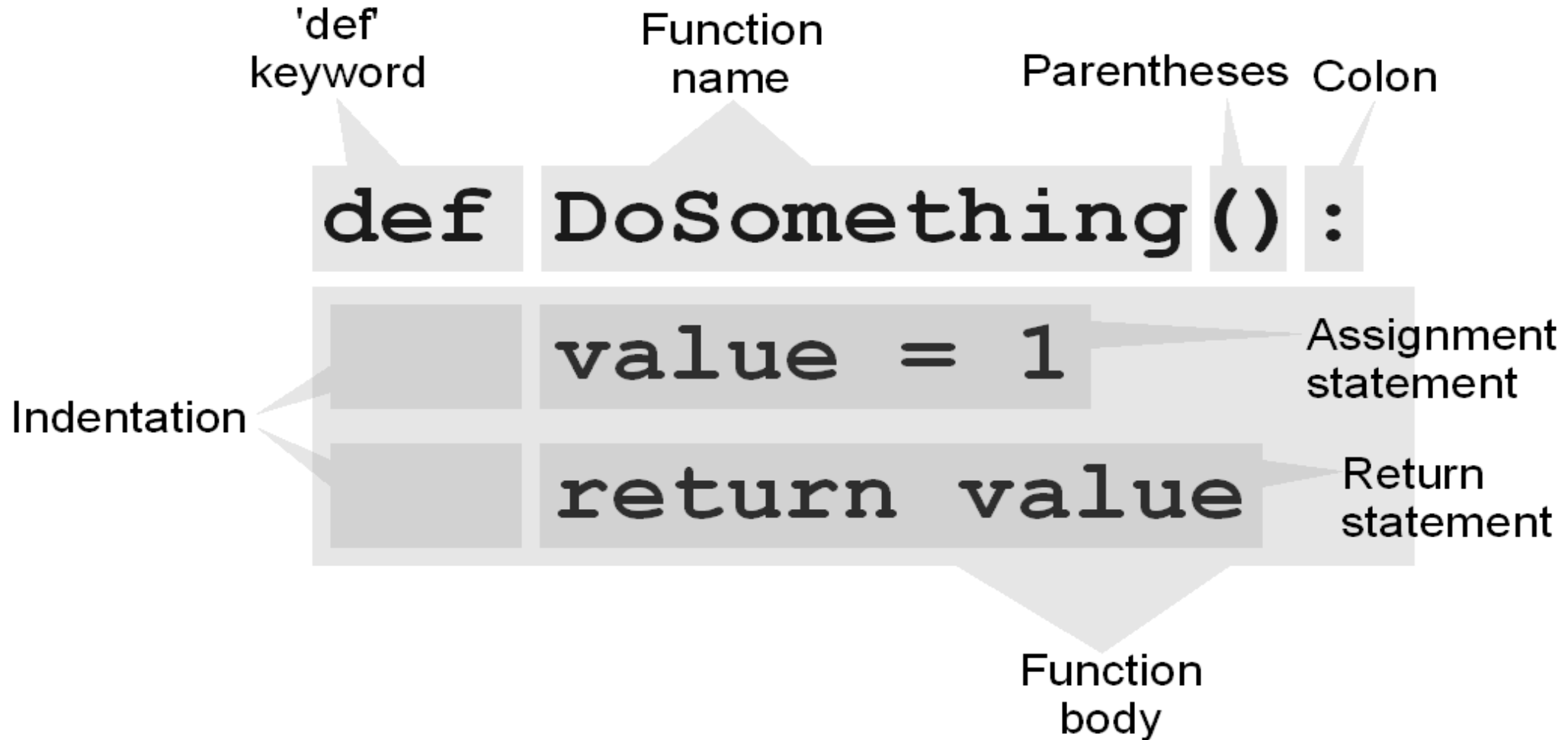
INPUT & OUTPUT



FUNCTIONS



PYTHON SYNTAX



PYTHON FUNTION TYPES

