

Writing a program/script in IDLE

1. Open IDLE
2. To write a program click on File Menu → New File
3. It will open code window
4. Inside this code window type the program

```
print("Hello Python")
```
5. Save program → File Menu → save
6. Execute Program → Run → Run Module
The output displayed inside shell

English

Python

Alphabets

Alphabets/Character set

Words

Tokens

Sent

Statements/Instruction

Paragraph

Program

Software

Character set of python

Set of characters supported by a programming language.

This character set defines encoding and decoding standards.

There are two encoding and decoding standards.

1. ASCII
2. UNICODE

ASCII stands for American Standard Code for Information Interchange.

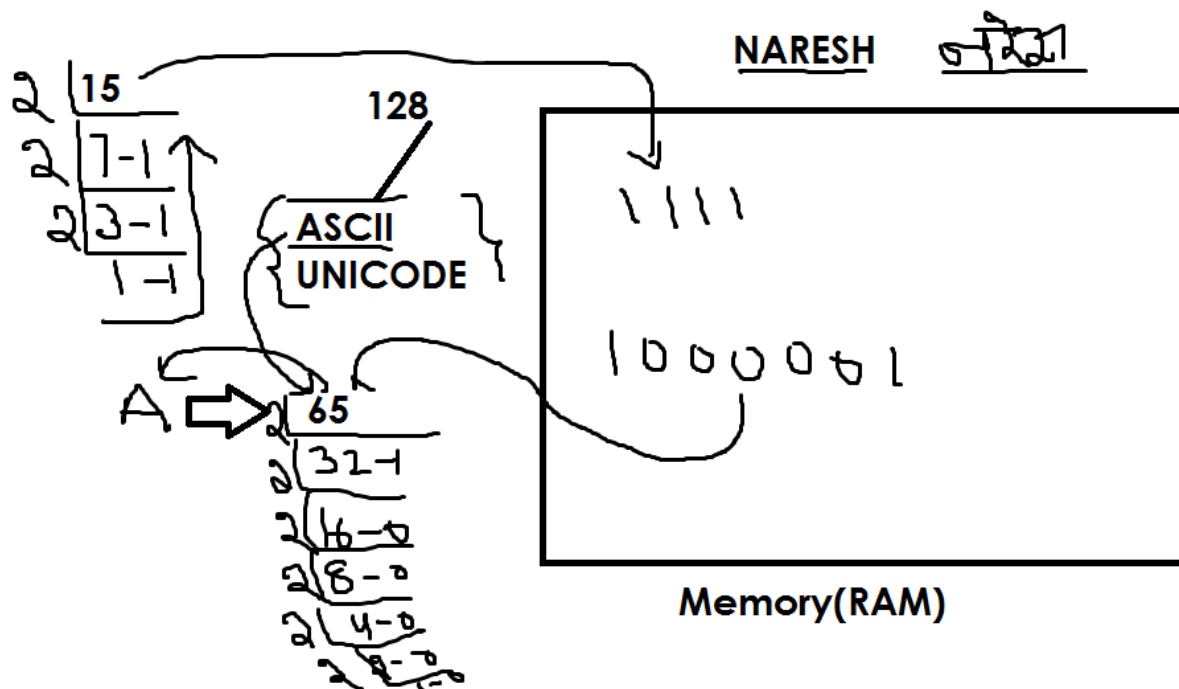
According ASCII there are 256 characters. These 256 characters includes alphabets in english(a-z,A-Z),digits(0-9) and special characters.

UNICODE is superset of set ASCII, it not only support characters of english, it also support characters of other languages.

UNICODE 8bits → ASCII

UNICODE 16bits → 65536

UNICODE 32bits

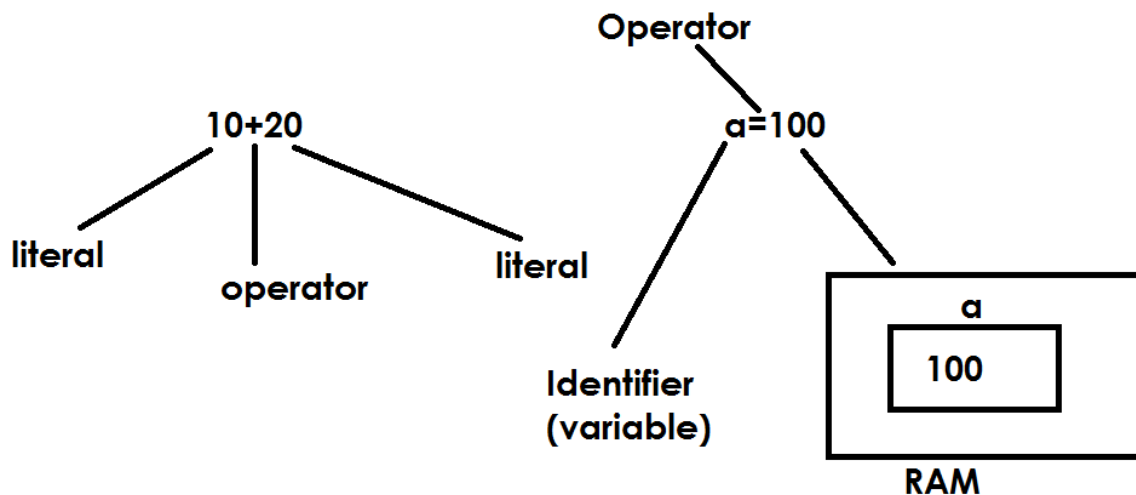


Python Tokens

What is token?

A token is smallest individual unit with program.

A statement/instruction is collection tokens.



1. Keywords
2. Identifiers
3. Literals
4. Operators
5. Datatypes

Keywords

Keywords are called reserved words

Keywords are language related words.

Each keyword is having its own syntax, the syntax of these words identified by python translator. Each keyword is used for specific purpose.

```
def mean():
```

```
a=10
```

```
b=20
```

```
if a>b
```

keyword cannot be used as identifier.

How to find keyword supported by python?

```
>>> import keyword
```

```
>>> keyword.kwlist
```

```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class',  
'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'global', 'if',  
'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise', 'return', 'try',  
'while', 'with', 'yield']
```

```
>>> len(keyword.kwlist)
```

```
35
```

Python 3.10.0 version support 35 keywords

Python 3.9 version support 36 keywords

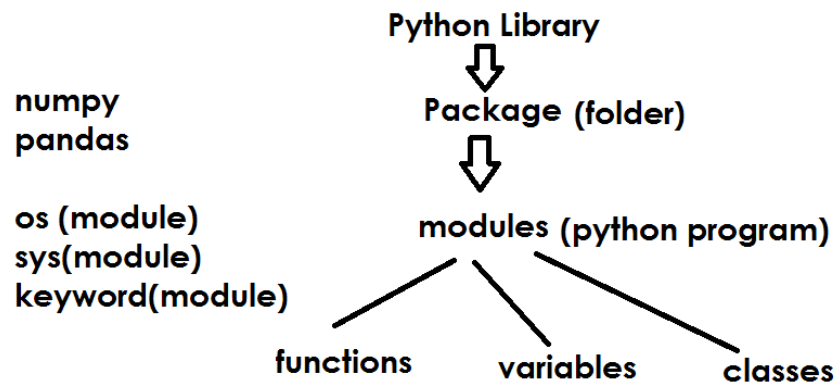
Keywords are case sensitive.

False, True, None → values

If, for, while, try, except, finally

10

1.5



Identifier

Identifier is user defined word.