

11-09-2025

Features of python

- 1.Easy to learn/simple syntax
- 2.Open source
- 3.It is platform independent
- 4.Extensive libraries
- 5.Indented programming
- 6.Strong community support

Applications

- 1.Web application
- 2.Mobile application
- 3.Desktop application
- 4.GUI(Graphical user interface)
- 5.Gaming applications
- 6.Machine learning
- 7.Deep learning
- 8.AI,robotics,IOT
- 9.graphical design

- Guido vaan rosum developed python
- feb 1991 python1 was lauched
- oct 2000 python2
- dec 2008 python3

Comments:

They are part of code but they won't execute at the time of execution.

There are 2 types of comments in python

1. Single line comments

single line

2. multiline comment

```
''' multiline  
    comment'''
```

```
""" multiline  
    comment"""
```

Keywords:

They are the reserved words used for particular task and cannot be used as identifiers (variables, function names)

ex: True, False, for, while, if, else, def, return...etc

variables:

It is a place/name where we store any value.

valid variables

a = 7

A = 2

name = "Pooja"

stuname = "suman"

stu_name = "karan"

num1 = 9

num2 = 1

num_2 = 15

```
num_1 = 37
_stu_id = 456
```

Invalid variable:

cant give the space else throws error.

```
emp name = "kamala"
```

```
1num = 8769
```

```
emp@id$ = "EMP123"
```

Data types:

defines about the kind of data

(single valued datatype)

int

float

complex

str

(multi valued datatype)

list

tuple

set

dict

str