

Python is an interpreted high-level general-purpose programming language. Python's design philosophy emphasizes code readability with its notable use of significant indentation. It is an object-oriented approach aim to help programmers write

e clear, logical code for small and large-scale projects. Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly, procedural), object-oriented and functional programming. Python is often described as a "batteries included" language due to its comprehensive standard library. Guido van Rossum began working on Python in the late 1980s, as a successor to the ABC programming language, and first released it in 1991 as Python 0.9.0. Python 2.0 was released in 2000 and introduced new features, such as list comprehensions and a garbage collection system using reference counting. Python 3.0 was released in 2008 and was a major revision of the language that is not completely backward-compatible and much Python 2 code does not run unmodified on Python 3. Python 2 was discontinued with version 2.7.18 in 2020. Python consistently ranks as one of the most popular programming languages.

== History ==

Python was conceived in the late 1980s by Guido van Rossum at Centrum Wiskunde & Informatica (CWI) in the Netherlands as a successor to ABC programming language, which was inspired by SETL, capable of exception handling and interfacing with the Amoeba operating system. Its implementation began in December 1989.

```
In [12]: pwk.info("artificial intelligence")
```

Artificial intelligence (AI) is intelligence demonstrated by machines, unlike the natural intelligence displayed by humans and animals, which involves consciousness and emotionality. The distinction between the former and the latter categories is often revealed by the acronym chosen. 'Strong' AI is usually labelled as artificial general intelligence (AGI) while attempts to emulate 'natural' intelligence have been called artificial biological intelligence (ABI).

```
In [14]: !pip install pyttsx3
```

```
Collecting pyttsx3
  Downloading pyttsx3-2.90-py3-none-any.whl (39 kB)
Collecting pypiwin32; platform_system == "Windows"
  Downloading pypiwin32-223-py3-none-any.whl (1.7 kB)
Requirement already satisfied: ctypes; platform_system == "Windows" in c:\users\lenovvo\anaconda3\lib\site-packages (from pyttsx3) (1.1.7)
Requirement already satisfied: pywin32; platform_system == "Windows" in c:\users\lenovvo\anaconda3\lib\site-packages (from pyttsx3) (227)
Installing collected packages: pypiwin32, pyttsx3
Successfully installed pypiwin32-223 pyttsx3-2.90
```

```
In [2]: import pyttsx3
obj=pyttsx3.init()
obj.say("welcome to python programming")
obj.runAndWait()
```

```
In [3]: f1=open("C:\\Users\\Lenovvo\\OneDrive\\Desktop\\speech.txt")
```

```
In [4]: obj1=f1.read()
```

```
In [25]:
```

```
In [5]: obj.say(obj1)
obj.runAndWait()
f1.close()
```

```
In [12]: obj.setProperty("rate",200)
obj.setProperty("volume",1)
obj.save_to_file(obj1,"C:\\Users\\Lenovvo\\OneDrive\\Desktop\\speechsample.mp3")
obj.runAndWait()
```

```
In [13]: import os
```

```
In [16]: !pip install playsound
```

```
Collecting playsound
  Downloading playsound-1.2.2-py2.py3-none-any.whl (6.0 kB)
Installing collected packages: playsound
Successfully installed playsound-1.2.2
```

```
In [20]: import playsound as ps
```

```
In [21]: ps.playsound("C:\\Users\\Lenovvo\\OneDrive\\Desktop\\speechsample.mp3")
```

```
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PlaysoundException                                Traceback (most recent call last)
<ipython-input-21-06de4583c7a8> in <module>
----> 1 ps.playsound("C:\\Users\\Lenovvo\\OneDrive\\Desktop\\speechsample.mp3")

~\\anaconda3\\lib\\site-packages\\playsound.py in _playsoundWin(sound, block)
    33
    34     alias = 'playsound_' + str(random())
----> 35     winCommand('open "' + sound + '" alias', alias)
    36     winCommand('set', alias, 'time format milliseconds')
    37     durationInMS = winCommand('status', alias, 'length')

~\\anaconda3\\lib\\site-packages\\playsound.py in winCommand(*command)
    29         '\n' + command.decode() +
    30         '\n' + errorBuffer.value.decode())
----> 31         raise PlaysoundException(exceptionMessage)
    32     return buf.value
    33

PlaysoundException:
  Error 277 for command:
    open "C:\\Users\\Lenovvo\\OneDrive\\Desktop\\speechsample.mp3" alias playsound_0.494199
00810474704
  A problem occurred in initializing MCI.
```

```
In [ ]:
```