

1. Who Developed Python Programming Language?
 - **Guido van Rossum** was the person behind the development of python programming language
 - First released was on Feb 20,1991.
 - The name for **Python programming language** comes from an old BBC television comedy sketch series called **Monty Python's Flying Circus**.
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2. Which type of Programming does python support?

- The Programming type supported by python are:
 - ❖ Object-Oriented Programming
 - ❖ Structured Programming
 - ❖ Functional Programming
 - ❖ Aspect-Oriented programming
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3. Is Python Case Sensitive when dealing with identifiers?

- Identifiers are the name given to variables, classes, methods, etc.
 - Yes,Identifiers in Python are Case Sensitive.
 - We cannot use keywords as variable names as they are reserved names that are built-in to Python.
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4. What is the correct extension of the Python file?

- The correct extension of a python file is **".py"**,which is widely used.
 - But there are other extension too **.pyi, .pyc, .pyd, .pyo, .pyw, and .pyz**
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5. Is Python Code compiled or Interpreted?

- Mostly It is assumed to be a **Interpreted Language**,but there are some behind the scenes so python can be termed as **first compiled and then interpreted**.
 - The compilation part is hidden from the programmer,therefore it is **mentioned as interpreted language**.
 - Behind the scenes,The compilation part is done first when we execute our code and this will generate byte code and internally this byte code gets converted by the python virtual machine,also this compiled part gets deleted by the python as soon as it execute the code.
 - Therefore python is **termed as interpreted language**.
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6. Name a few blocks of code used to define in the python language?

- The imported module, a function body and a class definition with proper indentation defines a block of code in python.
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7. State a character used to give single-line comments in python?

- **The character "#"** is used for a single line comment in python.
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8. Mention functions which can help us to find the version of python that we are currently working on?

- Use this code:
from platform import python_version
print("Current Version of Python interpreter we are using-", python_version())
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9. Python supports the creation of anonymous functions at runtime,using a construct called?

- Python supports the creation of anonymous functions at runtime,using a construct called as **"lambda"**
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10. What does pip stand for python?

- **preferred installer program.**
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11. Mention a few built-in functions in python?

- min() - Returns the smallest item in an iterable
 - pow() - Returns the value of x to the power of y
 - print() - Prints to the standard output device
 - range() - Returns a sequence of numbers, starting from 0 and increments by 1 (by default)
 - type() - Returns the type of an object
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12. What is the maximum possible length of an identifier in python?

- **79 characters** is the Max possible length of an identifier in python.
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13. What are the benefits of using python?

- Python is one of the widely used programming language,since the python syntax are easy to understand and the language takes less writing of code to a task as compared to java ,c ,c++ etc.
 - Python has many applications in ML/AI,Web development,GUI development,testing and automation etc.
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14. How is memory managed in python?

- Memory management in Python involves a private heap containing all Python objects and data structures. The management of this private heap is ensured internally by the Python memory manager.
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15. How to Install Python on Windows and set path variables?

- Download the Python From the Python's Website(<https://www.python.org/>)
 - While installation there is an option to select to set the path variables.
 - If missed then navigate the python installation folder and copy the location of the Python installation and Scripts and paste them inside path in environment variables.
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16. Is Indentation required in python?

- Yes, Indentation is required in python as this tells the interpreter that which part of code belong to which block