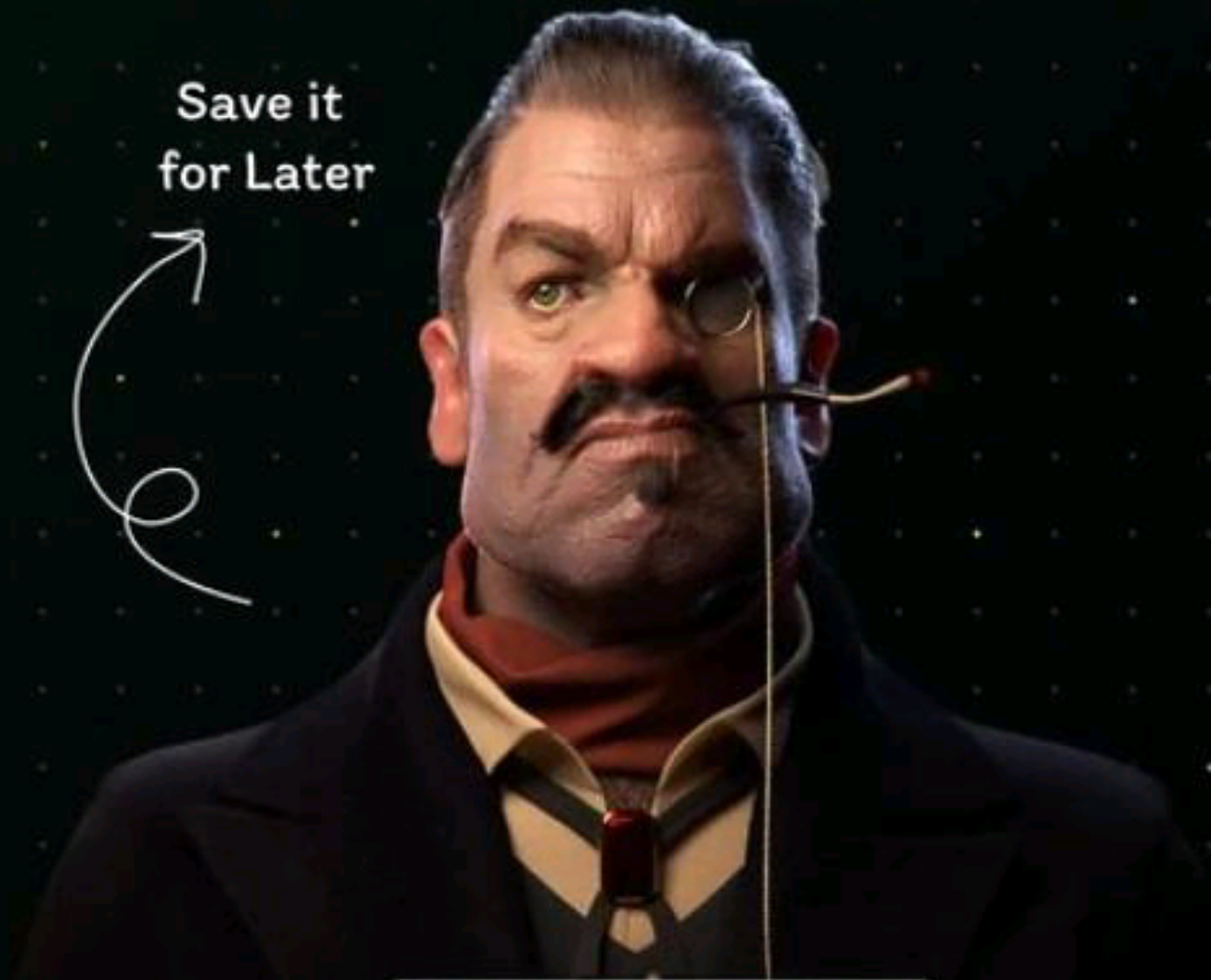# Python interview
Questions & Answers

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1️⃣ What is Python?

✅ 👉Python is a high-level, interpreted, interactive, and object-oriented language. It uses English keywords frequently. Whereas, other languages use punctuation, Python has fewer syntactic constructions.

👉Python is designed to be highly readable and compatible with different platforms such as Mac, Windows, Linux, Raspberry Pi, etc.

2️⃣ How is Memory managed in Python?

✅ 👈Memory in Python is managed by Python private heap space. All Python objects and data structures are located in a private heap. This private heap is taken care of by Python Interpreter itself, and a programmer doesn't have access to this private heap.

👈Python memory manager takes care of the allocation of Python private heap space.

👈Memory for Python private heap space is made available by Python's in-built garbage collector, which recycles and frees up all the unused memory.

3 **What is the difference between lists and tuples?**

List	Tuple
👉Lists are mutable	👉Tuples are immutable
👉Lists are usually slower than tuples	👉Tuples are faster than lists
👉Lists consume a lot of memory	👉Tuples consume less memory
👉Lists consist of many built-in functions.	👉Tuples do not consist of many built-in functions.
👉Syntax	👉Syntax

```
list_1 = [10, 'Intellipaat', 20]
```

```
tup_1 = (10, 'Intellipaat', 20)
```

4 **What are functions in Python?**

✅ A function is a block of code which is executed only when a call is made to the function. def keyword is used to define a particular function as shown below:

```python
def function():
print("Hi, Welcome to Intellipaat")
function(); # call to the function
```

5 **What is a map function in Python?**

✅ The map() function in Python has two parameters, function and iterable. The map() function takes a function as an argument and then applies that function to all the elements of an iterable, passed to it as another argument. It returns an object list of results.

```python
def calculateSq(n):
    return n*n
numbers = (2, 3, 4, 5)
result = map( calculateSq, numbers)
print(result)
```

6️⃣ **What are Python Modules?**

✅ Files containing Python codes are referred to as Python Modules. This code can either be classes, functions, or variables and saves the programmer time by providing the predefined functionalities when needed. It is a file with ".py" extension containing an executable code.

👉 os
👉 sys
👉 data time
👉 math
👉 random
👉 JSON