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# PYTHON INTERVIEW QUESTIONS

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# 1. What is Python?

**Python is a general-purpose programming language which is object-oriented and high-level programming mainly used for web applications and development.**

## 2. What are the features Python can offer?

**Python can be used to create software, games and web application using several frameworks.**

### **3. Can you compare Java and Python?**

**Yes, the biggest difference between Java and Python, Python is easier and simpler whereas Java uses more complex codes.**

## 4. Is Python an interpreted language?

**Yes, Python has interpreted language because Python programs run directly from the source code.**

## **5. Who was the founder of Python and when was it released?**

**Guido Van Rossum has founded the Python and it was released in December 1989.**

## **6. Name any programming paradigms which Python include?**

**Object-oriented, imperative, functional and procedural are the programming paradigms which Python include.**

## **7. Why is Python said to be a High-Level Programming Language?**

**Python is said to be High-Level Programming language because the language which Python uses is closer to human languages thus which makes it easier for a human to interpret.**



## **8. What do you know about PEP 8? Why is it important?**

**PEP 8 is Python's style guide which has set of rules for how to format your Python code. It is important because it shows how the Python code should be formatted.**

## **9. Can you differentiate between pickling and Unpickling in Python?**

**Pickling in Python is the process of converting Python object to byte stream whereas unpickling is the reverse operation of the pickling.**

## **10. How will you find the bugs and errors in a Python code?**

**To find the bugs and errors in Python code we'll use Python Debugger tool or PDB.**

**11. Can you state the names of the tool which are used to find bugs in Python?**

**PyChecker is used to find bugs in Python.  
Pylint is another tool which can be used  
to detect errors.**

## 12. How can you alter functions in Python syntax?

**By using Python decorators we can alter the functions easily.**

## **13. What is the use of dictionaries in Python?**

**Dictionaries in Python are used for mapping of unique keys to values.**

## **14. What are the major two versions of Python Programming language?**

**Python 2.0 and Python 3.0 are the two versions used Python programming language.**

## 15. What is “The Zen of Python”?

**It is the principle which influences the design of the python programming.**



**16. Which command do you use to exit the help window in Python programming?**

**To exit the help window in Python programming 'press q'.**

## **17. How would you list all the built-in functions and variables in Python?**

**By using help () function or dir () function we can list all the built-in functions that are available in the Python.**

## 18. Explain module in Python?

**The Module is used to structure a Python program. Modules basically contain a set of functions which you want to use in a Python program.**

## **19. How will you find methods or attributes of an object?**

**We can find methods or attributes of an object by using built-in functions. Help () or dir () can be used to find the attributes of an object.**

## **20. What do you know about mutable and immutable types in Python? They are the built-in**

**Types of Python. Mutable built-in types are list, sets, and dictionaries. Immutable built-in types are strings, tuples, and numbers.**

## 21. Why isn't memory freed whenever the Python exits?

**Memory isn't freed because Python does not try to destroy every single of its object. Also, certain bits of memory are distributed by the C library which is impossible to get free.**

## **22. Can you explain the term monkey patching in Python?**

**Monkey Patching is a method by which we can extend our programming while runtime. We can modify the code or extends it while runtime.**

## 23. What does “\*args” and “\*\*kwargs” means and why do have to use it?

**\*args and \*\*kwargs are the special syntax used for the function to pass a variable number of arguments to a function in a Python.**



## **24. How will you modify the strings in Python? Can you name all of them?**

**We can use different functions which can be used to modify the strings. Split(), sub(), and subn() are the functions used to modify the strings in Python.**

**25. Can u state the difference between range and xrange in Python? State their uses.**

**Both are used to generate a list of number for the user to use. Thus only difference is that xrange only returns the xrange object whereas range returns the Python list of object.**

## **26. Explain the term unittest. What is the use of unittest in Python?**

**Unittest in Python provides a unit testing framework. It helps in automation testing, shutdown code for tests, aggregation of tests and independence tests.**

## **27. Can you convert a string to a number and how?**

**Yes, we can convert a string to a number by using built-in functions in Python. For example, `ch = "4789"` is a string which can be converted to an integer by using**

```
num = int(ch)
```

## 28. Can you copy an object in Python and how?

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