

# **Python Interview Questions**

1. What is Python?
2. Who is the Father of Python and What is History of Python?
3. What is the purpose of Python?
4. What are the advantages and disadvantages of Python?
5. What are the key features of Python?
6. How do you write comments in Python?
7. What are variables in Python and their uses?
8. What are the Data Types in Python?
9. What are Membership Operators in Python?
10. What are identity operators in Python?
11. What are Relationship operators in Python?
12. What is the difference between = and ==?
13. What is the difference between is and ==?
14. What is typecasting in Python?
15. Is Python a compiled language or an interpreted language?
16. What does the '#' symbol do in Python?
17. What are conditional or branching Statements in Python, and what is their use?
18. What is the difference between if and if-else?
19. Where do we use nested if statements?
20. What are loops in Python, and what are the types of loops?
21. What is the use of loops in Python?
22. What is the difference between a for loop and a while loop?
23. What are Break, Continue, and pass statements?
24. What is the difference between / and // in Python?
25. What is the difference between \* and \*\* in Python?
26. What is the difference between xrange and range functions?
27. What is a list, and what are the advantages of lists?
28. Can you give some real-time examples of lists?

29. What is List Comprehension? Can you give an example?
30. What is a tuple, and what are the advantages of tuples?
31. Can you give some real-time examples of tuples?
32. What is tuple Comprehension? Can you give an example?
33. What is the difference between a list and a tuple?
34. What is the difference between append, insert, and extend in list methods?
35. What is a set, and what are the advantages of sets?
36. Can you give some real-time examples of sets?
37. What is the difference between pop and remove in list methods?
38. Will tuple Comprehension work? Why?
39. What is a dictionary, and what are the advantages of dictionaries?
40. What is Dict Comprehension? Can you give an example?
41. What is the difference between a set and a dictionary?
42. What are functions, and what is their use in Python?
43. What are the types of functions in Python?
44. What is a lambda function?
45. How do you define a function in Python?
46. What is a recursive function in Python?
47. What are \*args and \*\*kwargs?
48. What is a Keyword, and how many Keywords are there in Python?
49. Is Indentation Required in Python?
50. How do you define Indentation in Python?
51. What is Scope in Python?
52. What is a local variable?
53. What is a Global variable?
54. What is a Global keyword, and how does it work?
55. What is a nonlocal variable in Python?
56. What is a closure in Python?
57. What are Decorators, and what is their use?
58. What are Chain of Decorators?

59. What are the advantages of Decorators?
60. What is Pipelining in Python?
61. What are Generators in Python?
62. What are Iterators in Python?
63. What is the difference between a Mutable datatype and an Immutable data type?
64. Can we Pass a function as an argument in Python?
65. What are predefined functions in Python?
66. What is the difference between a shallow copy and a deep copy?
67. What is slicing in Python?
68. What is PIP?
69. What is PEP8?
70. What is a zip function?
71. What are Pickling and Unpickling?
72. What type of language is Python? Is it Programming or scripting?
73. What is the difference between Python Arrays and lists?
74. What is the purpose of the "yield" keyword in Python?
75. What is frozenset()?
76. What are default arguments?
77. How do you convert Alphabets into ASCII values?
78. What is a destructor?
79. What is a formatted string, and how do we define it?
80. What is the difference between OOP and POP?
81. What are the advantages of OOP?
82. What is a Class?
83. What is an Object?
84. What are the 4 pillars of OOPS?
85. What is self?
86. What is \_\_init\_\_?
87. What is Encapsulation, and can you give a real-time example?
88. What are access specifiers in Python, and what are their types?

89. What are Packages in Python?
90. What is a Module in Python?
91. What is import, and what is its use?
92. What is Inheritance, and what are the types of inheritance?
93. What is the difference between multilevel inheritance and multiple inheritances?
94. What is the difference between a Super Class and a Sub Class?
95. What is Polymorphism, and can you give a real-time example?
96. What is Method Overloading?
97. What is Method Overriding?
98. What are MagicMethods?
99. What is Operator Overloading?
100. What is Abstraction, and can you give a real-time example?
101. How do you Create an Abstract Class and Abstract method?
102. What is PVM?
103. What is Monkey Patching?
104. What is a Class Method?
105. What is a Static Method?
106. What is an Instance Method?
107. What is an Instance Variable?
108. What is a Class Variable?
109. What is the difference between a Class Variable and an Instance Variable?
110. What is Threading, and how does it work?
111. What is Exception Handling?
112. What do Except, try, and Finally keywords do?
113. What are the advantages of Exception handling in Python?
114. What is raise, and what is its use?
115. What are the types of Exceptions?
116. What are the steps to connect the database with Python?
117. What are the rules we have to follow when working with a database?
118. What is file handling in Python?

119. What is the use of file handling in Python?
120. How many Types of modes do we have in file handling, and what are they?
121. What are the rules we have to follow when working with File handling?
122. What is the difference between r+ and w+ in Python?
123. What is Regular expression in Python, and what is its use?
124. Name Some methods of REG?
125. What is JSON?
126. What are the methods in JSON?
127. Where do you prefer Lambda Function?
128. How is memory Managed in Python?
129. What is garbage Collection in Python?
130. How do you comment multiple lines in Python?
131. What is the usage of dir() and help() methods in Python?
132. What is mro?
133. What is "map"?
134. What is "filter"?
135. What is the difference between "map" and "filter" functions in Python?
136. What is \_\_name\_\_ in Python?
137. Explain the pythonic way of swapping?
138. What is enumerate()?
139. What is the purpose of the isinstance() function?
140. How to convert Alphabets into ASCII values?
141. How do you raise custom exceptions in Python?
142. What is the purpose of the if \_\_name\_\_ == "\_\_main\_\_": block in Python scripts?
143. What is a metaclass in Python?
144. What is the purpose of the ord() function in Python?
145. What is an anonymous function in Python?
146. What is a formatted string, and how do we define it?
147. Explain split() and join() functions in Python?
148. Explain the use of the iter() and next() functions in Python?

149. How do you handle multiple exceptions in a single except block?
150. How can you find the index of an element in a list?
151. Explain the purpose of the super() function in Python.
152. What are negative indexes and why are they used?
153. What is the difference between \_\_new\_\_ and \_\_init\_\_?
154. What is a factory method in classes?
155. What is message passing?
156. How to create an empty class in Python?
157. How to create an empty class in Python?
158. How to create an empty class in Block?
159. What are the disadvantages of Python?
160. What is "is a Relationship" in Python?
161. What is "Has a Relationship" in Python?
162. What is a Programming Language?
163. What is a Program?
164. What is the Current version Of Python?
165. What is "None" in Python?
166. What is the difference between Python & other Languages?
167. What are the rules that we have to follow when we create a variable?
168. How do you check the datatype of data in Python?
169. What is the difference between remove and discard in set Methods?
170. What is the difference between difference() and symmetric\_difference in set Methods?
171. What is the difference between difference() and difference\_update in set Methods?
172. What is the difference between intersection and intersection\_update in set Methods?
173. How do you sort() the DICT in Python?
174. What is the difference between pop() and popitem() in DICT Methods?
175. How does Setdefault() work in Dict methods?
176. Explain bitwise operators in Python?
177. What is Generalization in Python?
178. What is Specialization in Python?

179. Why do we need OOPS?
180. What is an interpreted language?
181. What is the difference between .Py and .Pyc files?
182. Explain IDLE?
183. What is frozenset()?
184. What is nonlocal scope?
185. How do you open and read a file in Python?
186. What is call stack in Python?
187. Is Python case sensitive?
188. How do we define private variables?
189. What is an anonymous function in Python?
190. Is Python purely oops? Describe.
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199. What is an anonymous function in Python?
200. Is Python purely object-oriented? Describe.

**All the best**