

**\*\*PYTHON INTERVIEW QUESTIONS FOR REFERENCE\*\***

1. explain professional summary, tools, frameworks of projects
2. functionality of project in detail
3. design a rest api/endpoint in flask
4. basic configurations & modules required to import in flask
5. which library/module required to connect python with aws
6. use of decorator in flask and python with example
7. on which datatypes u r worked with?
8. scenario to replace list as tuple in project?
9. why need \_\_tablename\_\_ in flask? what it will by default??
10. how to merge 2 dictionaries?  
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11. keys are mutable or immutable in dict??  
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12. how to expose endpoints to client?
13. steps for deployment on application server
14. written any testcases? if yes, which module used? any use of decorator in that??
15. example for relative import? \*\*\*
16. list comprehension example \*\*\*
17. left join and right join in MySQL
18. mvc architecture of django
19. roles & responsibilities in all project
20. features of django \*\*\*
21. which one is more comfortable for small project --- django or flask
22. which architecture django follows?? \*\*\*
23. use of controller in mvc \*\*\*
24. request response cycle of django \*\*\*
25. what are middlewares in django
26. name middlewares in django \*\*\*
27. use of middlewares
28. why need django admin interface?
29. what are signals in django --- explore it
30. what are static files
31. difference between makemigrations and migrate
32. what are sessions in django
33. python version worked on \*\*\*
34. what are decorators \*\*\*
35. where we used decorators in django
36. how python code gets executed?? \*\*\*
37. what are modules and packages in python? \*\*\*
38. what are generators? \*\*\*
39. difference between yield & return \*\*\*
40. how memory is managed in python? \*\*\*
41. in a function assigned a value x=10 then how it get stored in python?  
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42. have u followed oops concept in project? \*\*\*
43. how u work with polymorphism in python?  
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44. what is money patching?  
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45. difference between variables static & instance variables  
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46. difference between static method & instance method  
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47. have u worked on any abstract class? how we create it?  
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48. which databases u worked??

49. types of joins in postgresql?

50. what is lateral join?

51. how many types of keys postgresql?

52. difference between primary key & unique key

53. suppose there is a string=('a','e','i','o','u') how to make it  
different like ('a','e','i'), ('o','u')? \*\*\*

54. used exception handling in project?  
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55. how many block in exception handling?  
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56. flow of exception handling?  
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57. when else block gets executed from exception handling?  
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58. 5 built-in functions in python

59. what is any() function?

60. any(123) what will be output?

61. l=['ab',1,2,3] any(l) what will be output?

62. purpose of any() function?

63. what will be output any('varsha')?

64. what is map function in python?

65. difference between sort() and sorted()? ----

66. what is meta class?

67. what are closures in python?

68. what is decorators?

69. where used decorator in ur project??

70. what is abstract class?

71. use case of abstract class?

72. difference between class method and static method?

73. difference between .get and .filter method

74. write a orm query --- want names starts with 'john'

75. what are signals in django?

76. what is type hints in python?

77. difference between primary key and unique key

78. what is indexing in databases?

79. what is serializers in django?

80. what is api view?

81. in databases, what is dml and dcl?

82. tell me about ur projects.

83. difference between python array and list

84. what are different methods of writing python functions

85. what is init.py file in python?

86. what is \_\_init\_\_ in class?

87. what is self in python class? why it is used?

88. define a for loop to add elements in list.

89. how to combine 2 list l1=[1,2,3] l2=['a','b','c']?

90. what is difference between append and extend?

91. str='abcd' print only 'abc'? how to do it?

92. what is dictionary?

93. u have list=['a','b','c'] join it like ['a,b,c']. Do it.
94. what is split() in python?
95. what is django architecture?
96. which database used to write API?
97. what are models in django?
98. what are views in django?
99. how u will create project in django? what is command for it? tell me whole flow?
100. explain request and response in django.
101. what is indexing in database?
102. write a query to create a table with id, first name, last name.
103. write a order by query on that table.
104. write a query to select first 10 records in tables
105. how to use limit in query?
106. how do you provide offset in select query?
107. write a query to alter column name of table.
108. what are different joins in mysql?
109. what is left join?
110. what is inner join?
111. what is normalization in database?
112. what is stored procedure?
113. what is views in mysql?
114. how will u rate urself in python and mysql out of 5?
115. what would u prefer to a project --- django or flask?
116. ur roles and responsibilities in current project
117. what is token authentication?
118. why u gone with token authentication?
119. how exceptions gets handled in python?
120. what are different http methods?
121. difference between post and put?
122. what is uri?
123. how to secure ur API?
124. what is django-form?
125. ways to create a login page in django?
126. what is payload?
127. what is use of urls.py file in django?
128. why we need regex?
129. write a list comprehension for even numbers.
130. write a dictionary comprehension for even numbers upto 100.
131. what is decorator?
132. write a decorator function for execution time.
133. explain mvc architecture.
134. explain current project along with architecture.
135. which design patterns are you used in current project?
136. difference bwtween flask and django
137. project scenario example when to use django and when flask?
138. what is REST?
139. what are actions with REST we can do? Explain all actions.
140. what is mvc and mvt?
141. what is hashtables? what are techniques in that?
142. which one is better orm or normal query?
143. what is python -- interpreted or compiled?
144. how python file gets compiled?
145. why we need .pyc file?

146. r u worked on threading, GPI?  
147. what are collection data types in python?  
148. use cases of list, set, tuple, dictionary?  
149. what datatypes we can use as a key?  
150. how memory managed in python?  
151. when x=0 how it get stored in memory?  
152. eval() keyword in python?  
153. can we have private, public, protected classes/variables in python?  
154. difference between classmethod, staticmethod, instancemethod?  
155. we have classmethod then why we need staticmethods?  
156. what is \_\_init\_\_ method in class?  
157. what is \_\_repr\_\_ in class?  
158. what is slots in python?  
159. scenario questions  
160. what is diamond problem? how to overcome it?  
161. scenario quesstions on list methods  
162. any experience in react?  
163. roles and responsibilities in all projects  
164. u have done testing --- automation or manual?  
165. how u handled test cases --- excel or any tool?  
166. how agile process works? --- explain all details about agile  
167. have u used any repository management tool?  
168. what type of branches u used? how managed check up and check out in git?  
169. how will u create uri for patient module for get, post, delete actions?  
170. features of python languages  
171. how python handles in memory/memory management?  
172. what is stackoverflow exception in python? ---- bad recursive call  
173. what is recursion?  
174. ur 24\*7 running application gives out of memory error, what are causes of it?  
175. programmetical difference between python and c languages.  
176. feature view comparison of python and c  
177. what is object oriented programming?  
178. what is RDBMS?  
179. what is postgresQL?  
180. key properties of RDBMS database.  
181. what do you know about REST?  
182. what are the actions/operations come under REST API?  
183. what is horizontal scaling of web services?  
184. difference between tuple and dictionary  
185. how to access tuple elements?  
186. what will be error if we trying to change/update tuple element?  
187. what is lambda functions?  
188. what are middlewares in django?  
189. where we can store cookies and sessions?  
190. what is purpose of cookies in browser?  
191. how browser communicates to server in sessions?  
192. how server knows session started?  
193. how to delete a file from python?  
194. scenario question --- code for list and range  
195. what is deep copy and shallow copy?  
196. what is ORM?

197. what are the methods REST supports?  
198. what is OPTION method in REST?  
199. what is difference between PUT and PATCH?  
200. find second highest employee salary from employee table --- 2-3 ways to do it  
201. what is offset in MySQL?  
202. what are attributes and properties in HTML?  
203. how we will bypass form in HTML?  
204. what is heroku?  
205. tell me steps for deployment of project on heroku.  
206. how to configure working repository with heroku and how to work/deploy updating features on heroku?  
207. which methodologies u worked?  
208. what are engines MySQL supports?  
209. acid properties of MySQL  
210. what are aggregate functions in MySQL?  
211. difference between having clause and where clause  
212. what is JOIN? types of joins in MySQL?  
213. what is indexing in database?  
214. can we use all columns for indexing in MySQL?  
215. what is \*args and \*\*kwargs in python? use case of it  
216. steps to design database using python models?  
217. difference between django and flask  
218. comparison of in built functionalities of django with flask  
219. any known technologies for front-end technologies  
220. explain aws services which u know  
221. steps of deployment of flask application on AWS  
222. steps for production deployment of application  
223. write down steps to do one project from scratch.  
224. what is singleton and factory design patterns? use cases of both  
225. how to track admin activities from audit login when data record is in millions? 2-3 ways to do it  
226. table structure for admin activities in projects  
227. what is authentication and authorization  
228. 2 tables --- 1 is emp, 2 dept ---  
    emp --- id name dept\_id salary  
    dept --- id name  
        find highest salary of all department  
229. how memory management done in python?  
230. can programmer access private heap space? does it allow in python?  
231. explain which data structure algorithm u used in ur project?  
232. what is linked list?  
233. what is scope resolution in python?  
234. when we have 2 functions with same name, how to assign priority for it?  
235. what types of scope in python?  
236. what is outer-most scope in python?  
237. what is module level scope in python?  
238. why should I use namespace in python?  
239. what are interpreted languages? example of some interpreted languages?  
240. explain python code execution.  
241. what are decorators in python?  
242. what are common built-in data types? what is range?

243. range is function or data type?  
244. what are complex data types?  
245. what are built-in types of set?  
246. what is callable() type in python?  
247. what is pass keyword?  
248. difference between range() and xrange()  
249. guideline to write/design REST API?  
250. what is self keyword in python?  
251. what is unittest? purpose of unittest?  
252. what type of token authentication u used in ur project? explain process of it?  
253. what is cURL?  
254. what is type of mysql and postgresql?  
255. what type of databases available in market? name some nosql databases.  
256. which design patterns u used in ur project? explain it.  
257. which services of AWS u know? explore that services.  
258. what is left outer join in mysql?  
259. explain technical projects flow which u have done in ur experience?  
260. difference between list and tuple? explain difference according to performance time as well  
261. memory management in python? difference between deep copy and shallow copy.  
262. write down program to explain string slicing concept.  
263. write a program for string palindrome, return true if palindrome and false if not.  
264. write a function to print fibonacci series  
265. u have implemented any custom data structure algorithm for ur project?  
266. pros and cons of django and flask according to scenarios.  
267. explain merge sort.  
268. scenario question on sorting algorithm  
269. 3 layers cake is there. want to make 8 pieces of that but only 3 cuts are allowed. how u will do it?  
270. write a program to search particular substring from given string and gives index of that. (can use re module as well as built-in methods)  
271. write a program using re module to search substring all occurrences along with index.  
272. explain binary tree search algorithm.