Top 50 Python Interview Questions You Must Prepare In 2019

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Basic Python Interview Questions

Q1. What is the difference between list and tuples?

LIST	TUPLES
Lists are mutable i.e they can be edited.	Tuples are immutable (tuples are lists which can't be edited).
Lists are slower than tuples.	Tuples are faster than list.
Syntax: list_1 = [10, 'Chelsea', 20]	Syntax: tup_1 = (10, 'Chelsea' , 20)

LIST vs TUPLES

Q2. What are the key features of Python?

- Python is an **interpreted** language. That means that, unlike languages like *C* and its variants, Python does not need to be compiled before it is run. Other interpreted languages include *PHP* and *Ruby*.
- Python is **dynamically typed**, this means that you don't need to state the types of variables when you declare them or anything like that. You can do things like `x=111` and then `x="I'm a string"` without error
- Python is well suited to **object oriented programming** in that it allows the definition of classes along with composition and

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Q3. What is the difference between deep and shallow copy?

Ans: *Shallow copy* is used when a new instance type gets created and it keeps the values that are copied in the new instance. Shallow copy is used to copy the reference pointers just like it copies the values. These references point to the original objects and the changes made in any member of the class will also affect the original copy of it. Shallow copy allows faster execution of the program and it depends on the size of the data that is used.

Deep copy is used to store the values that are already copied. Deep copy doesn't copy the reference pointers to the objects. It makes the reference to an object and the new object that is pointed by some other object gets stored. The changes made in the original copy won't affect any other copy that uses the object. Deep copy makes execution of the program slower due to making certain copies for each object that is been called.

Q4. How is Multithreading achieved in Python?

Ans:

1. Python has a multi-threading package but if you want to multi-thread to speed your code up, then it's usually not a good idea to use it.
2. Python has a construct called the Global Interpreter Lock (GIL). The GIL makes sure that only one of your 'threads' can execute at any one time. A thread acquires the GIL, does a little work, then passes the GIL onto the next thread.
3. This happens very quickly so to the human eye it may seem like your threads are executing in parallel, but they are really just taking turns using the same CPU core.
4. All this GIL passing adds overhead to execution. This means that if you want to make your code run faster then using the threading package often isn't a good idea.

Q5. How can the ternary operators be used in python?

Ans: The Ternary operator is the operator that is used to show the conditional statements. This consists of the true or false values with a statement that has to be evaluated for it.

Syntax:

The Ternary operator will be given as:
[on_true] if [expression] else [on_false]x, y = 25, 50big = x if x < y else y

Example:

The expression gets evaluated like if x<y else y, in this case if x<y is true then the value is returned as big=x and if it is incorrect then big=y will be sent as a result.

Q6. How is memory managed in Python?

Ans:

1. Memory management in python is managed by **Python private heap space**. All Python objects and data structures are located in a private heap. The programmer does not have access to this private heap. The python interpreter takes care of this instead.
2. The allocation of heap space for Python objects is done by Python's memory manager. The core API gives access to some tools for the programmer to code.
3. Python also has an inbuilt garbage collector, which recycles all the unused memory and so that it can be made available to the heap space.

Q7. Explain Inheritance in Python with an example.

Ans: Inheritance allows One class to gain all the members(say attributes and methods) of another class. Inheritance provides code reusability, makes it easier to create and maintain an application. The class from which we are inheriting is called super-class and the class that is inherited is called a derived / child class.

Ans: Flask is a web microframework for Python based on "Werkzeug, Jinja2 and good intentions" BSD license. Werkzeug and Jinja2 are two of its dependencies. This means it will have little to no dependencies on external libraries. It makes the framework light while there is a little dependency to update and fewer security bugs.

A session basically allows you to remember information from one request to another. In a flask, a session uses a signed cookie so the user can look at the session contents and modify. The user can modify the session if only it has the secret key Flask.secret_key.

Q9. What is the usage of help() and dir() function in Python?

Ans: Help() and dir() both functions are accessible from the Python interpreter and used for viewing a consolidated dump of built-in functions.

1. Help() function: The help() function is used to display the documentation string and also facilitates you to see the help related to modules, keywords, attributes, etc.
2. Dir() function: The dir() function is used to display the defined symbols.

Q10. Whenever Python exits, why isn't all the memory de-allocated?

Ans:

1. Whenever Python exits, especially those Python modules which are having circular references to other objects or the objects that are referenced from the global namespaces are not always de-allocated or freed.
2. It is impossible to de-allocate those portions of memory that are reserved by the C library.
3. On exit, because of having its own efficient clean up mechanism, Python would try to de-allocate/destroy every other object.

Q11. What is dictionary in Python?

Ans: The built-in datatypes in Python is called dictionary. It defines one-to-one relationship between keys and values. Dictionaries contain pair of keys and their corresponding values. Dictionaries are indexed by keys.

Let's take an example:

The following example contains some keys. Country, Capital & PM. Their corresponding values are India, Delhi and Modi respectively.

```
1  dict={'Country':'India','Capital':'Delhi','PM':'Modi'}
```

```
1  print dict[Country]
```

```
India
```

```
1  print dict[Capital]
```

```
Delhi
```

```
1  print dict[PM]
```

```
Modi
```

Q12. What is monkey patching in Python?

Ans: In Python, the term monkey patch only refers to dynamic modifications of a class or module at run-time.

Consider the below example:

```
1  # m.py
2  class MyClass:
3  def f(self):
4  print "f()"
```

```
monkey_f()
```

As we can see, we did make some changes in the behavior of *f()* in *MyClass* using the function we defined, *monkey_f()*, outside of the module *m*.

Q13. What does this mean: `*args`, `**kwargs`? And why would we use it?

Ans: We use `*args` when we aren't sure how many arguments are going to be passed to a function, or if we want to pass a stored list or tuple of arguments to a function. `**kwargs` is used when we don't know how many keyword arguments will be passed to a function, or it can be used to pass the values of a dictionary as keyword arguments. The identifiers `args` and `kwargs` are a convention, you could also use `*bob` and `**billy` but that would not be wise.

Q14. Write a one-liner that will count the number of capital letters in a file. Your code should work even if the file is too big to fit in memory.

Ans: Let us first write a multiple line solution and then convert it to one liner code.

```
1  with open(SOME_LARGE_FILE) as fh:
2  count = 0
3  text = fh.read()
4  for character in text:
5      if character.isupper():
6  count += 1
```

We will now try to transform this into a single line.

```
1  count sum(1 for line in fh for character in line if character.isupper())
```

Q15. What are negative indexes and why are they used?

Ans: The sequences in Python are indexed and it consists of the positive as well as negative numbers. The numbers that are positive uses '0' that is uses as first index and '1' as the second index and the process goes on like that.

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The index for the negative number starts from '-1' that represents the last index in the sequence and '-2' as the penultimate index and the sequence carries forward like the positive number.

The negative index is used to remove any new-line spaces from the string and allow the string to except the last character that is given as S[:-1]. The negative index is also used to show the index to represent the string in correct order.

Q16. How can you randomize the items of a list in place in Python?

Ans: Consider the example shown below:

```
1  from random import shuffle
2  x = ['Keep', 'The', 'Blue', 'Flag', 'Flying', 'High']
3  shuffle(x)
4  print(x)
```

The output of the following code is as below.

```
['Flying', 'Keep', 'Blue', 'High', 'The', 'Flag']
```

Q17. What is the process of compilation and linking in python?

3. Add a line in the file Setup.local that is present in the Modules/ directory.
4. Run the file using spam file.o
5. After successful run of this rebuild the interpreter by using the make command on the top-level directory.
6. If the file is changed then run rebuildMakefile by using the command as 'make Makefile'.

Q18. Write a sorting algorithm for a numerical dataset in Python.

Ans: The following code can be used to sort a list in Python:

```
1   list = ["1", "4", "0", "6", "9"]
2   list = [int(i) for i in list]
3   list.sort()
4   print (list)
```

Q19. Looking at the below code, write down the final values of A0, A1, …An.

```
1   A0 = dict(zip(('a','b','c','d','e'),(1,2,3,4,5)))
2   A1 = range(10)A2 = sorted([i for i in A1 if i in A0])
3   A3 = sorted([A0[s] for s in A0])
4   A4 = [i for i in A1 if i in A3]
5   A5 = {i:i*i for i in A1}
6   A6 = [[i,i*i] for i in A1]
7   print(A0,A1,A2,A3,A4,A5,A6)
```

Ans: The following will be the final outputs of A0, A1, … A6

A0 = {'a': 1, 'c': 3, 'b': 2, 'e': 5, 'd': 4} # the order may vary
A1 = range(0, 10)
A2 = []
A3 = [1, 2, 3, 4, 5]
A4 = [1, 2, 3, 4, 5]
A5 = {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81}
A6 = [[0, 0], [1, 1], [2, 4], [3, 9], [4, 16], [5, 25], [6, 36], [7, 49], [8, 64], [9, 81]]

Q20. Explain split(), sub(), subn() methods of "re" module in Python.

Ans: To modify the strings, Python's "re" module is providing 3 methods. They are:

- split() – uses a regex pattern to "split" a given string into a list.
- sub() – finds all substrings where the regex pattern matches and then replace them with a different string
- subn() – it is similar to sub() and also returns the new string along with the no. of replacements.

Q21. How can you generate random numbers in Python?

Ans: Random module is the standard module that is used to generate the random number. The method is defined as:

```
1   import random
2   random.random
```

The statement random.random() method return the floating point number that is in the range of [0, 1). The function generates the random float numbers. The methods that are used with the random class are the bound methods of the hidden instances. The instances of the Random can be done to show the multi-threading programs that creates different instance of individual threads. The other random generators that are used in this are:

1. randrange(a, b): it chooses an integer and define the range in-between [a, b]. It returns the elements by selecting it randomly from the range that is specified. It doesn't build a range object.
2. uniform(a, b): it chooses a floating point number that is defined in the range of [a,b).Iyt returns the floating point number
3. normalvariate(mean, sdev): it is used for the normal distribution where the mu is a mean and the sdev is a sigma that is used for standard deviation.

This means that xrange doesn't actually generate a static list at run-time like range does. It creates the values as you need them with a special technique called yielding. This technique is used with a type of object known as generators. That means that if you have a really gigantic range you'd like to generate a list for, say one billion, xrange is the function to use.

This is especially true if you have a really memory sensitive system such as a cell phone that you are working with, as range will use as much memory as it can to create your array of integers, which can result in a Memory Error and crash your program. It's a memory hungry beast.

Q23. What is pickling and unpickling?

Ans: Pickle module accepts any Python object and converts it into a string representation and dumps it into a file by using dump function, this process is called pickling. While the process of retrieving original Python objects from the stored string representation is called unpickling.

Django – Python Interview Questions

Q24. Mention the differences between Django, Pyramid and Flask.

Ans:

- Flask is a "microframework" primarily build for a small application with simpler requirements. In flask, you have to use external libraries. Flask is ready to use.
- Pyramid is built for larger applications. It provides flexibility and lets the developer use the right tools for their project. The developer can choose the database, URL structure, templating style and more. Pyramid is heavy configurable.
- Django can also used for larger applications just like Pyramid. It includes an ORM.

Q25. Discuss the Django architecture.
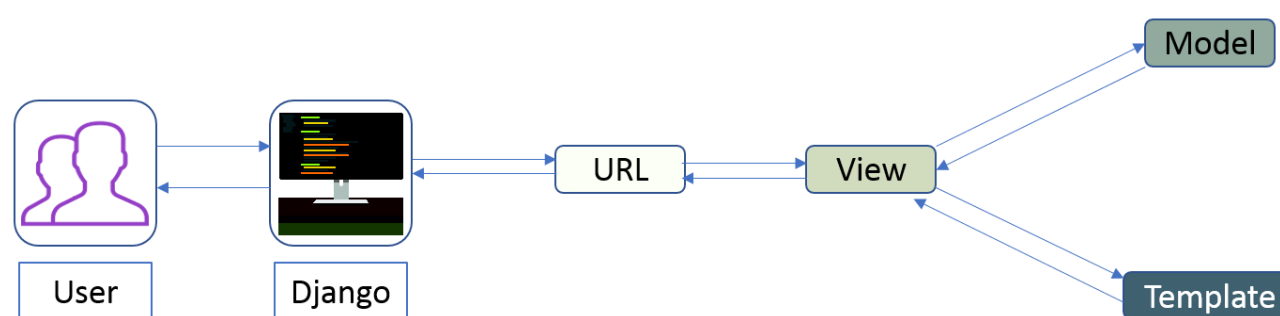
Ans: Django MVT Pattern:

Figure: *Python Interview Questions – Django Architecture*

The developer provides the Model, the view and the template then just maps it to a URL and Django does the magic to serve it to the user.

Q26. Explain how you can set up the Database in Django.

Ans: You can use the command edit mysite/setting.py , it is a normal python module with module level representing Django settings.

Django uses SQLite by default; it is easy for Django users as such it won't require any other type of installation. In the case your database choice is different that you have to the following keys in the DATABASE 'default' item to match your database connection settings.

- **Engines**: you can change database by using 'django.db.backends.sqlite3' , 'django.db.backeneds.mysql', 'django.db.backends.postgresql_psycopg2', 'django.db.backends.oracle' and so on
- **Name**: The name of your database. In the case if you are using SQLite as your database, in that case database will be a file on your computer, Name should be a full absolute path, including file name of that file.
- If you are not choosing SQLite as your database then settings like Password, Host, User, etc. must be added.

Django uses SQLite as default database, it stores data as a single file in the filesystem. If you do have a database server—PostgreSQL,

```
1   DATABASES = {
2       'default': {
3           'ENGINE' : 'django.db.backends.sqlite3',
4           'NAME' : os.path.join(BASE_DIR, 'db.sqlite3'),
5       }
6   }
```

Q27. Give an example how you can write a VIEW in Django?

Ans: This is how we can use write a view in Django:

```
1   from django.http import HttpResponse
2   import datetime
3
4   def Current_datetime(request):
5       now = datetime.datetime.now()
6       html = "<html><body>It is now %s</body></html>" % now
7       return HttpResponse(html)
```

Returns the current date and time, as an HTML document

Q28. Mention what the Django templates consists of.

Ans: The template is a simple text file. It can create any text-based format like XML, CSV, HTML, etc. A template contains variables that get replaced with values when the template is evaluated and tags (% tag %) that controls the logic of the template.
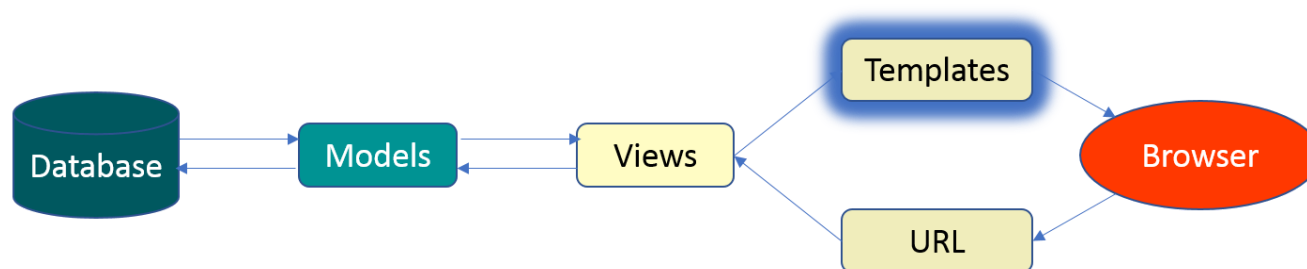

Figure: *Python Interview Questions – Django Template*

Q29. Explain the use of session in Django framework?

Ans: Django provides session that lets you store and retrieve data on a per-site-visitor basis. Django abstracts the process of sending and receiving cookies, by placing a session ID cookie on the client side, and storing all the related data on the server side.
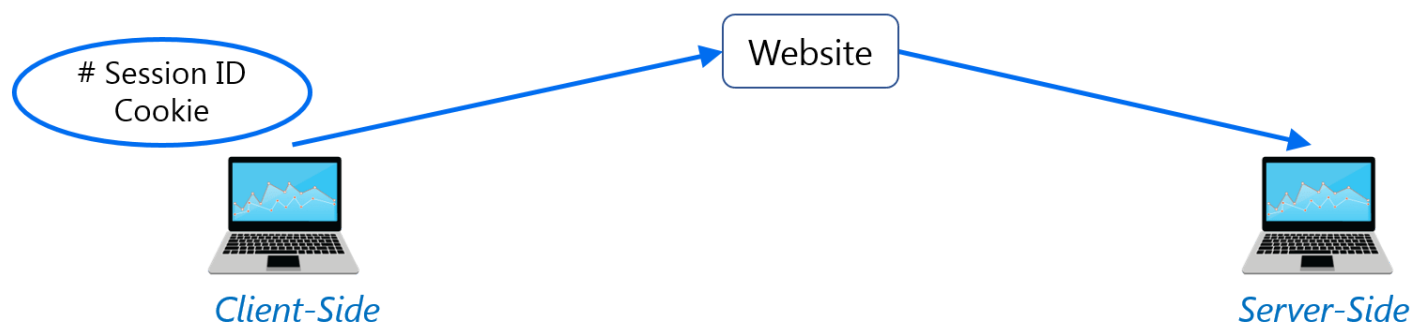

Figure: *Python Interview Questions – Django Framework*

So the data itself is not stored client side. This is nice from a security perspective.

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Q30. List out the inheritance styles in Django.

Web Scraping – Python Interview Questions

Q31. How To Save An Image Locally Using Python Whose URL Address I Already Know?

Ans: We will use the following code to save an image locally from an URL address

```
1  import urllib.request
2  urllib.request.urlretrieve("URL", "local-filename.jpg")
```

Q32. How can you Get the Google cache age of any URL or web page?

Ans: Use the following URL format:

http://webcache.googleusercontent.com/search?q=cache:URLGOESHERE

Be sure to replace "URLGOESHERE" with the proper web address of the page or site whose cache you want to retrieve and see the time for. For example, to check the Google Webcache age of edureka.co you'd use the following URL:

```
http://webcache.googleusercontent.com/search?q=cache:edureka.co
```

Q33. You are required to scrap data from IMDb top 250 movies page. It should only have fields movie name, year, and rating.

Ans: We will use the following lines of code:

```
1  from bs4 import BeautifulSoup
2
3  import requests
4  import sys
5
6  url = 'http://www.imdb.com/chart/top'
7  response = requests.get(url)
8  soup = BeautifulSoup(response.text)
9  tr = soup.findChildren("tr")
10 tr = iter(tr)
11 next(tr)
12
13 for movie in tr:
14 title = movie.find('td', {'class': 'titleColumn'} ).find('a').contents[0]
15 year = movie.find('td', {'class': 'titleColumn'} ).find('span', {'class': 'secondaryInfo'}).cc
16 rating = movie.find('td', {'class': 'ratingColumn imdbRating'} ).find('strong').contents[0]
17 row = title + ' - ' + year + ' ' + ' ' + rating
18
19 print(row)
```

The above code will help scrap data from IMDb's top 250 list

Data Analysis – Python Interview Questions

Q34. What is map function in Python?

Ans: *map* function executes the function given as the first argument on all the elements of the iterable given as the second argument. If the function given takes in more than 1 arguments, then many iterables are given. #Follow the link to know more similar functions.

Q35. How to get indices of N maximum values in a NumPy array?

Ans: We can get the indices of N maximum values in a NumPy array using the below code:

```
1  import numpy as np
2  arr = np.array([1, 3, 2, 4, 5])
3  print(arr.argsort()[-3:][::-1])
```

Output

Output

```
3
```

Q37. What advantages do NumPy arrays offer over (nested) Python lists?

Ans:

1. Python's lists are efficient general-purpose containers. They support (fairly) efficient insertion, deletion, appending, and concatenation, and Python's list comprehensions make them easy to construct and manipulate.
2. They have certain limitations: they don't support "vectorized" operations like elementwise addition and multiplication, and the fact that they can contain objects of differing types mean that Python must store type information for every element, and must execute type dispatching code when operating on each element.
3. NumPy is not just more efficient; it is also more convenient. You get a lot of vector and matrix operations for free, which sometimes allow one to avoid unnecessary work. And they are also efficiently implemented.
4. NumPy array is faster and You get a lot built in with NumPy, FFTs, convolutions, fast searching, basic statistics, linear algebra, histograms, etc.

Q38. Explain the use of decorators.

Ans: Decorators in Python are used to modify or inject code in functions or classes. Using decorators, you can wrap a class or function method call so that a piece of code can be executed before or after the execution of the original code. Decorators can be used to check for permissions, modify or track the arguments passed to a method, logging the calls to a specific method, etc.

Q39. What is the difference between NumPy and SciPy?

Ans:

1. In an ideal world, NumPy would contain nothing but the array data type and the most basic operations: indexing, sorting, reshaping, basic elementwise functions, et cetera.
2. All numerical code would reside in SciPy. However, one of NumPy's important goals is compatibility, so NumPy tries to retain all features supported by either of its predecessors.
3. Thus NumPy contains some linear algebra functions, even though these more properly belong in SciPy. In any case, SciPy contains more fully-featured versions of the linear algebra modules, as well as many other numerical algorithms.
4. If you are doing scientific computing with python, you should probably install both NumPy and SciPy. Most new features belong in SciPy rather than NumPy.

Q40. How do you make 3D plots/visualizations using NumPy/SciPy?

Ans: Like 2D plotting, 3D graphics is beyond the scope of NumPy and SciPy, but just as in the 2D case, packages exist that integrate with NumPy. Matplotlib provides basic 3D plotting in the mplot3d subpackage, whereas Mayavi provides a wide range of high-quality 3D visualization features, utilizing the powerful VTK engine.

Multiple Choice Questions

Q41. Which of the following statements create a dictionary? (Multiple Correct Answers Possible)

a) d = {}

b) d = {"john":40, "peter":45}

c) d = {40:"john", 45:"peter"}

d) d = (40:"john", 45:"50")

Answer: b, c & d.

Dictionaries are created by specifying keys and values.

When both of the operands are integer then python chops out the fraction part and gives you the round off value, to get the accurate answer use floor division. For ex, 5/2 = 2.5 but both of the operands are integer so answer of this expression in python is 2. To get the 2.5 as the answer, use floor division using //. So, 5//2 = 2.5

Q43. What is the maximum possible length of an identifier?

a) 31 characters

b) 63 characters

c) 79 characters

d) None of the above

Answer: d) None of the above

Identifiers can be of any length.

Q44. Why are local variable names beginning with an underscore discouraged?

a) they are used to indicate a private variables of a class

b) they confuse the interpreter

c) they are used to indicate global variables

d) they slow down execution

Answer: a) they are used to indicate a private variables of a class

As Python has no concept of private variables, leading underscores are used to indicate variables that must not be accessed from outside the class.

Q45. Which of the following is an invalid statement?

a) abc = 1,000,000

b) a b c = 1000 2000 3000

c) a,b,c = 1000, 2000, 3000

d) a_b_c = 1,000,000

Answer: b) a b c = 1000 2000 3000

Spaces are not allowed in variable names.

Q46. What is the output of the following?

```
1   try:
2       if '1' != 1:
3           raise "someError"
4       else:
5           print("someError has not occured")
6   except "someError":
7       print ("someError has occured")
```

a) someError has occured

b) someError has not occured

c) invalid code

d) none of the above

Answer: c) invalid code

A new exception class must inherit from a BaseException. There is no such inheritance here.

Q47. Suppose list1 is [2, 33, 222, 14, 25], What is list1[-1] ?

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The index -1 corresponds to the last index in the list.

Q48. To open a file c:\scores.txt for writing, we use

a) outfile = open("c:\scores.txt", "r")

b) outfile = open("c:\\scores.txt", "w")

c) outfile = open(file = "c:\scores.txt", "r")

d) outfile = open(file = "c:\\scores.txt", "o")

Answer: b) The location contains double slashes (\\ ) and w is used to indicate that file is being written to.

Q49. What is the output of the following?

```
1   f = None
2
3   for i in range (5):
4       with open("data.txt", "w") as f:
5           if i > 2:
6               break
7
8   print f.closed
```

a) True

b) False

c) None

d) Error

Answer: a) True

The WITH statement when used with open file guarantees that the file object is closed when the with block exits.

Q50. When will the else part of try-except-else be executed?

a) always

b) when an exception occurs

c) when no exception occurs

d) when an exception occurs in *to* except block

Answer: c) when no exception occurs

The else part is executed when no exception occurs.

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I hope this set of Python Interview Questions will help you in preparing for your interviews. All the best!

Got a question for us? Please mention it in the comments section and we will get back to you at the earliest.

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                              Name

arcenstone • a year ago
Q41 is simply wrong, "{}" is correct literal for dict
4 ⌃ │ ⌄ • Reply • Share ›

        Pramod Raveendran ↱ arcenstone • 8 months ago
        option d is wrong.
        1 ⌃ │ ⌄ • Reply • Share ›

Jason Tan • 2 months ago
Should be worth noting: in python 3 Q42 actually behaves opposite as mentioned. The '/' operator performs true division by default,
so 5/2 = 2.5, and 5//2 = 2. The '//' is used to truncate the decimal and round down the solution.
1 ⌃ │ ⌄ • Reply • Share ›

        Ankur Pandey ↱ Jason Tan • 2 months ago
        They must update the article accordingly. This can really make a fool out of someone in the interview. :P
        ⌃ │ ⌄ • Reply • Share ›

Russell B • 6 months ago
This post is a good start but needs some serious editing! To copy an array, don't use a list comprehension... Use list[:]

Also your floor operator details are incorrect.
1 ⌃ │ ⌄ • Reply • Share ›

P Adhav • 4 months ago
answer of second question reg access modifiers feature is very short/shallow.
⌃ │ ⌄ • Reply • Share ›

👤 **bilzz** • 5 months ago
The dir() method tries to return a list of valid attributes of the object
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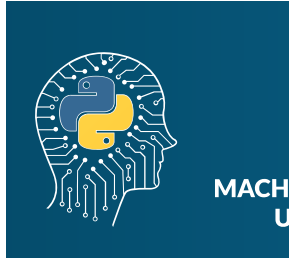### Data Science Certification Course using R

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