

- #####<https://intellipaat.com/interview-question/python-interview-questions>#####
- No. 1 What is the purpose of PYTHONPATH environment variable?
- 2 What are the supported data types in Python?
- 3 Whenever Python exits, why isn't all the memory de-allocated?
- 4 Explain split(), sub(), subn() methods of "re" module in Python.
- 5 What is the difference between range & xrange?
- 6 How to retrieve data from a table in MySQL database through Python code? Explain.
- 7 What are Accessors, mutators, @property?
- 8 How is memory managed in Python?
- 9 What is map function in Python?
- 10 Does Python supports interfaces like in Java? Discuss.
#####<https://data-flair.training/blogs/top-python-interview-questions-answer>#####
- 11 Differentiate between deep and shallow copy.
- 12 What is a dictionary in Python?
#####<https://data-flair.training/blogs/latest-python-interview-questions>#####
- 15 How do you remove the leading whitespace in a string?
- 16 Can you explain the filter(), map(), and reduce() functions?
#####<https://mindmajix.com/python-interview-questions>#####
- 17 What if you want to toggle case for a Python string?
- 18 What is the lambda operator?
- 19 How do I test a Python program or component?
- 20 How do I send mail from a Python script?
#####<https://data-flair.training/blogs/best-python-interview-questions>#####
- 22 What Are The Data Types Supports in Python Language?
- 23 What Are The Types of Objects Support in Python Language?
If while installing a package with pip, you get the error No matching installation
- 24 found, what can you do?
- 25 What is a frozen set in Python?
- 26 How would you generate a random number in Python?
#####<https://intellipaat.com/interview-question/python-interview-questions/>#####
- 27 How will you check if all characters in a string are alphanumeric?
- 28 What is slicing?
- 29 What is recursion?
#####<https://www.wikitechy.com/tutorials/python/python-interview-questions-and-answers-pdf>#####
- 31 What do you mean by list comprehension?
- 32 With Python, how do you find out which directory you are currently in?

33 How would you display a file's contents in reversed order?

34 what is the built in function that python uses to iterate over the number sequence?

35 How would you display a file's contents in reversed order?

36 what are the commands that use to copy an object in python?

37 how can the ternary operator be used in python?

38 how to do a regular expression using findall?

39 How can we copy an object in python?

40 how to use a regular expression?

41 print in terminal with colour using python?

42 <https://blog.interviewmocha.com/python-interview-questions-for-experienced>

43) What is unittest in Python?

44 How can you convert a number to a string?
What are some alternative implementations to CPython? When and why might you use them?

45

46 How does Python's garbage collection work?
#####<https://www.techbeamers.com/python-interview-questions-experienced/>#####3

47 What is the difference between range and xrange? How has this changed over time?

48 Here's a function (Provide a function). Optimize it for me.

49 What will be the output of the code below?

50 What is the function to randomize the items of a list in-place?

51 What is the best way to split a string in Python?

52 What is the right way to transform a Python string into a list?
How does exception handling in Python differ from Java? Also, list the optional clauses for a "try-except" block in Python?

53 What do you know about the "list" and "dict" comprehensions? Explain with an example.

54

55 What are the methods you know to copy an object in Python?

56 Can you write code to determine the name of an object in Python?
Can you write code to check whether the given object belongs to a class or its subclass?

57

58 What is the result of the following Python program?

59 What is the result of the below lines of code?
How would you produce a list with unique elements from a list with duplicate elements?

60

61 How does Python handle the memory management?

62 What is a built-in function that Python uses to iterate over a number sequence?

63 When is the Python decorator used?

64 What is the principal difference between a list and the tuple?

65 What are the principal differences between the lambda and def?
Write a regular expression that confirms an email id using the python regular expression module "re"?

66

- 67 What are the optional statements possible inside a try-except block in Python?
- 68 What is a string in Python?
- 69 What is slicing in Python?
- 70 What is %s in Python?
- 71 What is the index in Python?
- 72 What is a function in Python programming?
- 73 What is the purpose of doc strings in Python?
- 74 Which Python function will you use to convert a number to a string?
- 75 How do you debug a program in Python? Is it possible to step through the Python code?
- 76 List down some of the PDB commands for debugging Python programs?
- 77 What is the command to debug a Python program?
<https://www.greycampus.com/blog/programming/top-python-interview-questions-with-answers-for-freshers>
- 78 What does the yield keyword do in Python?
- 79 How to convert a list into other data types?
- 80 How do you count the occurrences of each item present in the list without explicitly mentioning them?
- 81 Turn a list into a dictionary.
- 82 What is a Variable in Python?
- 83 How do you find the type and identification number of an object in Python?
- 84 How do you represent binary and hexadecimal numbers?
- 85 What are the Arithmetic Operators that Python supports?
- 86 What are the basic Data Types Supported by Python?
- 87 How do you check whether the two variables are pointing to the same object in Python?
- 88 What is for-else and while-else in Python?
- 89 How do you programmatically know the version of Python you are using?
- 90 How do you find the number of references pointing to a particular object?
- 91 How do you dispose a variable in Python?
- 92 How do you dispose a variable in Python?
- 93 What are the generator functions in Python?
- 94 Write a generator function to generate a Fibonacci series?
- 95 What are the ideal naming conventions in Python?
- 96 What happens in the background when you run a Python file?
- 97 What is a module in Python?
- 98 How do you include a module in your Python file?
- 99 How do you reload a Python module?
- 100 What is List in Python?
- 101 When do you choose a list over a tuple?
- 102 How do you get the last value in a list or a tuple?
- 103

- 104 What is Index Out Of Range Error?
- 105 What is slice notation in Python to access elements in an iterator?
- 106 How do you convert a list of integers to a comma separated string?
- ☐ ☐
- 107 How do you create a list which is a reverse version on another list in Python?
- 108 How do you merge one dictionary with the other?
- 109 How to walk through a list in a sorted order without sorting the actual list?
- 110 What is a set?
- 111 How Python supports encapsulation with respect to functions?
- 112 What is a decorator?
- 113 How do you open an already existing file and add content to it?
- 114 What mode is used for both writing and reading in binary format in file?
<https://www.journaldev.com/12492/oops-interview-questions-answers#what-is-dependency>
- 115 Explain how to copy an object in Python.
- 116 What is OOPS?
- 117 Write basic concepts of OOPS?
- 118 What is a class?
- 119 What is an object?
- 120 What is Encapsulation?
- 121 What is Polymorphism?
- 122 What is Inheritance?Types of inheritance
- 123 What is the difference between Procedural programming and OOPS?
<https://www.geeksforgeeks.org/oop-in-python-set-3-inheritance-examples-of-object-issubclass-and-super/>
- 124 How to check if a class is subclass of another?
- 125 How to access parent members in a subclass?
- 126 Explain Inheritance in Python with an example.
- 127 How is Inheritance and Overriding methods are related?
- 128 What is constructor and how does it used in python
- 129 What is method overriding and method overloading?
- 130 what is operator overloading?
- 131 What is MRO?
- 132 Explain the characteristic of python object?
- 133 Explaon how to overload constructor or method in python
- 134 How instance variable are different from class variables
- 135 How is inheritance and overriding methods are related
Which methods of python are used to determine the type of instance and
- 136 inheritance
- 137 Does python support interfaces likes in java
- 138 How to count the number of instances?

139 What is the difference between @staticmethod and @classmethod in python?

140 What Is Self?

141 What Is __init__? Or What Is A Constructor In Python?

142 Super()method

143 What are static, instance variables ?

144 Explain delegation in Python

145 What is the procedure to extract values from the objects used in python

#####<https://www.codementor.io/sheena/essential-python-interview-questions-du107ozr6>

What is Python really? You can make comparisons to other technologies in your

146 answer

147 What does this stuff mean: *args, **kwargs? And why would we use it?

148 Describe Python's garbage collection mechanism in brief.

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

```
A0 = dict(zip(['a','b','c','d','e'],(1,2,3,4,5)))
```

```
A1 = range(10)
```

```
A2 = sorted([i for i in A1 if i in A0])
```

```
A3 = sorted([A0[s] for s in A0])
```

```
A4 = [i for i in A1 if i in A3]
```

```
A5 = {i:i*i for i in A1}
```

```
A6 = [[i,i*i] for i in A1]
```

150 What does this code output:

```
def f(x,l=[]):
```

```
    for i in range(x):
```

```
        l.append(i*i)
```

```
    print(l)
```

```
f(2)
```

```
f(3,[3,2,1])
```

```
f(3)
```

#####<https://www.guru99.com/python-interview-questions-answers.html>

151 How Python is interpreted?

152 How memory is managed in Python?

153 What is the difference between list and tuple?

154 How are arguments passed by value or by reference?

#####https://www.tutorialspoint.com/python/python_interview_questions.htm

155 What is Dict and List comprehensions are?

156 What is pass in Python?

157 In Python what is slicing?

- 158 What is docstring in Python?
- 159 How can you copy an object in Python?
- 160 What is negative index in Python?
- 161 How you can convert a number to a string?
- 162 What is the difference between Xrange and range?
- 163 Mention what are the rules for local and global variables in Python?
- 164 How can you share global variables across modules?
- 165 Mention the use of // operator in Python?
- 166 Mention five benefits of using Python?
- 167 Mention the use of the split function in Python?
- 168 Is python a case sensitive language?
- 169 What are the supported data types in Python?
What are tuples in Python?What is the difference between tuples and lists in
- 170 Python?
- 171 What are Python's dictionaries?
- 172 How will you create a dictionary in python?
- 173 How will you get all the keys from the dictionary?
- 174 How will you get all the values from the dictionary?
- 175 How will you convert a string to an int in python?
- 176 How will you convert a string to a long in python?
- 177 How will you convert a string to a float in python?
- 178 How will you convert a object to a string in python?
- 179 How will you convert a object to a regular expression in python?
- 180 How will you convert a String to an object in python?
- 181 How will you convert a string to a tuple in python?
- 182 How will you convert a string to a list in python?
- 183 How will you convert a string to a set in python?
- 184 How will you create a dictionary using tuples in python?
- 185 How will you convert a string to a frozen set in python?
- 186 How will you convert an integer to a character in python?
- 187 How will you convert an integer to an unicode character in python?
- 188 How will you convert a single character to its integer value in python?
- 189 How will you convert an integer to hexadecimal string in python?
- 190 How will you convert an integer to octal string in python?
- 191 What is the purpose of ** operator?
- 192 What is the purpose of // operator?
- 193 What is the purpose of is operator?
- 194 What is the purpose of not in operator?
- 195 What is the purpose break statement in python?
- 196 What is the purpose continue statement in python?
- 197 What is the purpose pass statement in python?

198 How can you pick a random item from a list or tuple?
199 How can you pick a random item from a range?
200 How can you get a random number in python?
201 How will you set the starting value in generating random numbers?
202 How will you randomizes the items of a list in place?
203 How will you capitalizes first letter of string?
204 How will you check in a string that all characters are alphanumeric?
205 How will you check in a string that all characters are digits?
206 How will you check in a string that all characters are in lowercase?
207 How will you check in a string that all characters are numerics?
208 How will you check in a string that all characters are whitespaces?
209 How will you check in a string that it is properly titlecased?
210 How will you check in a string that all characters are in uppercase?
211 How will you merge elements in a sequence?
212 How will you get the length of the string?
213 How will you convert a string to all lowercase?
214 How will you remove all leading whitespace in string?
215 How will you get the max alphabetical character from the string?
216 How will you get the min alphabetical character from the string?
217 How will you replaces all occurrences of old substring in string with new string?
218 How will you remove all leading and trailing whitespace in string?
219 How will you change case for all letters in string?
220
221 How will you convert a string to all uppercase?
222 How will you check in a string that all characters are decimal?
223 What is the difference between del() and remove() methods of list?
224 What is the output of len([1, 2, 3])?
225 What is the output of ['Hi!'] * 4?
225 How will you compare two lists?
225 How will you get the length of a list?
225 How will you get the max valued item of a list?
225 How will you get the min valued item of a list?
225 How will you get the index of an object in a list?
225 How will you insert an object at given index in a list?
225 How will you remove last object from a list?
225 How will you remove an object from a list?
225 How will you reverse a list?
225 How will you sort a list?
225 Is Python platform independent?
225 Do you think Python has a complier?
225 What are the applications of Python?

- 225 What is the basic difference between Python version 2 and Python version 3?
Which programming Language is an implementation of Python programming
225 language designed to run on Java Platform?
225 Is there any double data type in Python?
225 Can True = False be possible in Python?
225 When does a new block begin in python?
Write a function in python which detects whether the given two strings are
225 anagrams or not.
225 Name the python Library used for Machine learning.
225 What does pass operation do?
225 Name the tools which python uses to find bugs (if any).
#####<https://www.edureka.co/blog/interview-questions/python-interview-questions/>
226 What is the difference between deep and shallow copy?
227 Whenever Python exits, why isn't all the memory de-allocated?
228 Explain split(), sub(), subn() methods of "re" module in Python.
229 What is the difference between range & xrange?
230 How is compile-time and run-time code checking done in Python ?
231 What is the usage of help() and dir() function in Python ?
232 What is the difference between range & x range ?
#####<https://svrtechnologies.com/python-interview-questions/top-48-python-django-interview-questions-and-answers>
233 Is python a case sensitive language ?
234 What Are The Data Types Supports in Python Language ?
235 How is "self" explicitly defined in a method ?
236 How is memory managed in Python ?
237 How are modules used in a Python program ?
238 What is the Pthon interpreter prompt ?
239 How are instance variables different from class variables ?
240 Difference between Lambda & Def??
241 how instance variables are different from class variables??
242 what do you meant by list comprehension??

```
python what is this line ??  >>> import struct
>>> p=bytearray('foobar')
>>> p
bytearray(b'foobar')
>>> p[4]=struct.pack(">b", 64)
>>> p
bytearray(b'foob@r')
```

- 243 how would you define a protected member in a python class??

244 how do you remove duplicates from list??
245 What Is A Method?
<https://www.wisdomjobs.com/e-university/python-interview-questions.html>
246 What Is Self?
How Do I Call A Method Defined In A Base Class From A Derived Class That
247 Overrides It?
248 Does Python Support Object Oriented Scripting?
249 Describe About The Libraries Of Python?
250 State And Explain About Strings?
251 Explain About Classes In Strings?
252 What Is Tuple?
253 Explain And Statement About List?
254 Explain About Assert Statement?
255 Docstrings Vs comments??
<http://net-informations.com/python/iq/pfaq.htm>
256 is python is object oriented??
257 Difference between runtime & compile time??
258 difference between .py & .pyc files??
259 what is __init__.py used for in python??
260 what are the disadvantages of python??
261 how do you debug a program in python??
262 what are literals in python??
263 difference between 'is' and '=='??
264 difference between '==' and 'is'??
265 difference between mutable & immutable??
266 how to implement an 'enum' in python?
267 important characteristics of python objects??
268 difference between list & dictionary??
<https://www.sanfoundry.com/python-questions-answers-exception-handling/>
<https://www.edureka.co/blog/interview-questions/python-interview-questions/>
<https://www.techbeamers.com/python-exception-handling/>
269 Error vs. Exception in Python
270 Handle Exceptions with Try-Except
271 Handle All Types of Exception with Except
272 Handle Multiple Exceptions with Except
273 Handle Exceptions with Try-Finally
274 Raise Exception with Arguments
275 Create Custom Exceptions in Python
276 Python Built-in Exceptions
<https://www.wikitechy.com/>

<https://www.mytectra.com/interview-question/exception-handling-interview-questions/>

- 277 What is an exception Handling?
- 278 What are some advantages of exceptions?
- 279 What are the Exception Handling Keywords in Python?
- 280 What is the difference between a checked and an unchecked exception?
- 281 What is the purpose of the raise and assert Keyword?
- 282 What is the difference between an exception and error?
- 283 What are important methods of Java Exception Class?
- 284 What is the function to randomize the items of a list in-place?
- 285 What is the best way to split a string in Python?
- 286 What is the right way to transform a Python string into a list?
- How does exception handling in Python differ from Java? Also, list the optional clauses for a “try-except” block in Python?
- 287
- 288 What do you know about the “list” and “dict” comprehensions? Explain with an example.
- 289 What are the methods you know to copy an object in Python?
- 290 Can you write code to determine the name of an object in Python?
- 291 Can you write code to check whether the given object belongs to a class or its subclass?
- 292 What is the result of the following Python program?
- 293 What is the result of the below lines of code?
- 294 What is the result of the below Python code?
- 295 How would you produce a list with unique elements from a list with duplicate elements?
- Can you iterate over a list of words and use a dictionary to keep track of the frequency(count) of each word? Consider the below example.
- 296
- 297 What is the result of the following Python code?
- 298 Can you describe what’s wrong with the below code?
- <https://www.techbeamers.com/python-interview-questions-experienced/>
- <https://www.wikitechy.com/tutorials/python/programming-interview-questions-python>
- 299 Explain different ways to trigger /raise exceptions in your python Scripts?
- <https://www.sanfoundry.com/python-questions-answers-exception-handling/>
- 300 How many except statements can a try-except block have?
- 301 When will the else part of try-except-else be executed?
- 302 Can one block of except statements handle multiple exception?
- 303 When is the finally block executed?

7.11. Which of the following is not a standard exception in Python?

- a) NameError
- b) IOError
- c) AssignmentError
- d) ValueError

View Answer

Answer: c

Explanation: NameError, IOError and ValueError are standard exceptions in Python whereas Assignment error is not a standard exception in Python

- 304 Syntax errors are also known as parsing errors. Is this statement true or false?

#####Loops#####\$\$\$

- 305 What is a for loop in Python?
- 306 What is Use range() function with for loop
- 307 Use else clause with for loop
- 308 What is a while loop in Python?
- 309 Else clause with while loop
- 310 if Statement
- 311 if Else Statement
- 312 if-Elif-Else Statement
- 313 Nested If-Else Statement
- 314 Using Not Operator with If Else
- 315 Using And Operator with If Else
- 316 Using In Operator with If Else
- <https://intellipaat.com/interview-question/python-interview-questions/>
- 317 What is pickling and unpickling?
- 318 How do you perform pattern matching in Python? Explain
- 319 What is multithreading? Give an example.
- 320 What are Accessors, mutators, @property?
- 321 Write a Python function that checks whether a passed string is palindrome Or not?
- <https://www.wikitechy.com/interview-questions/python/>
- 322 What are the method(s) that iterator object must implement?
- 323 How can you create an iterator object from a list?
- 324 If a function contains at least one yield statement, it becomes ____
- What is the output of the following code?my_list = [1, 3, 6, 10]
a = (x**2 for x in my_list)
325 print(next(a), next(a))
- ```
def Foo(n):
 def multiplier(x):
 return x * n
 return multiplier

a = Foo(5)
b = Foo(5)

326 print(a(b(2)))
```

```
def make_pretty(func):
 def inner():
 print("I got decorated")
 func()
 return inner

def ordinary():
 print("I am ordinary")
```

```
pretty = make_pretty(ordinary)
pretty()
```

327 What is the output of the following code?

Which of the following statement is true?

You cannot chain multiple decorators in Python.  
Decorators doesn't work with functions that take parameters.  
The @ symbol doesn't have any use while using decorators.

328 None of the above

What is the more pythonic way to use getters and setters?

Choose one

Decorators

Generators

Iterators

329 @property ----Answer

In Python, there is a built-in function property() that returns a property object. The property object has which of the following methods?

330

[https://www.bogotobogo.com/python/python\\_interview\\_questions.php](https://www.bogotobogo.com/python/python_interview_questions.php)

We have the following code with unknown function f(). In f(), we do not want to use return, instead, we may want to use generator.

```
for x in f(5):
```

```
 print x,
```

331 0 1 8 27 64

[https://www.bogotobogo.com/python/python\\_interview\\_questions.php](https://www.bogotobogo.com/python/python_interview_questions.php)

itertools: Functions creating iterators for efficient looping.

It includes permutations, combinations and other useful iterables.

```
>>> [x for x in itertools.permutations('123')]
```

```
[(1, 2, 3), (1, 3, 2), (2, 1, 3), (2, 3, 1), (3, 1, 2), (3, 2, 1)]
```

```
>>> [x for x in itertools.permutations('123',2)]
```

```
[(1, 2), (1, 3), (2, 1), (2, 3), (3, 1), (3, 2)]
```

332 >>>

<https://www.codementor.io/sheena/essential-python-interview-questions-du107ozr6>

- 333 What do these mean to you: @classmethod, @staticmethod, @property?  
<https://www.wikitechy.com/tutorials/python/python-interview-question-and-answers>
- 334 why and when do you use Generators IN python?
- 335 what does the <Yield > keyword Do IN python
- 336 What is multithreading? Give an example.
- 337 Explain usage of decoratores

how do you to implement the decorators function ,using dollar

```
def dollar(fn):
 def new(*args):
 return '$' + str(fn(*args))
 return new
```

```
@dollar
def price(amount, tax_rate):
 return amount + amount*tax_rate
```

- 338 print price(100,0.1) ## output \$110  
<https://www.wisdomjobs.com/e-university/python-automation-testing-interview-questions.html>
- 339 What Are Generators In Python?
- 340 Define “docstring”?
- 341 Iterators, generators and decorators¶

you want to define a function with a generators which can iterate the numbers ,which are divisible by 7 within rangedef getNum(n,div): for i in range(n): if i % div == 0:

- 342 yield iDIVIDER = 7RANGE = 50print [n for n in getNum(RANGE, DIVIDER)]

<https://www.programiz.com/python-programming/generator>

- 343 what is difference between return and yield
- 344 what is difference between generator and normal function
- 345 can we use genarator as iterator?  
<https://www.wikitechy.com/tutorials/python/python-scripting-interview-questions-and-answers-for-freshers>

Basic file processing: Printing contents of a file.

try:

    with open('filename','r') as f:

        print f.read()

except IOError:

346     print "No such file exists"

How to display the content of text file in reverse order

for line in reversed(list(open("file-name","r"))):

347     print(line)

String Equivalence /comparison in python

testfile = "test.txt"

with open(testFile) as f:

    for line in f:

        line = line.rstrip()

        if "#### ham" in line or "#### spam" in line:

            print line

OR Code

if any(substr in line for substr in ("#### ham", "#### spam")):

348     print line

Which Of The Following Command Is Used To Open A File "C:\Temp.Txt" In Read-Mode Only?

A. infile = open("c:\temp.txt", "r")

B. infile = open("c:\\temp.txt", "r")

C. infile = open(file = "c:\temp.txt", "r+")

D. infile = open(file = "c:\\temp.txt", "r+")

349     ####Answer. B

Which Of The Following Command Is Used To Open A File "C:\Temp.Txt" In Write-Mode Only?A. outfile = open("c:\temp.txt", "w")B. outfile = open("c:\\temp.txt", "w")C. outfile =

350     open(file = "c:\temp.txt", "w+")D. outfile = open(file = "c:\\temp.txt", "w+")####Answer. B

351     Opening a file in 'a' mode

What does the following code do?

f = open("test.txt")

352     ####Answer Opens test.txt file for both reading and writing

Which of the following codes closes file automatically if exception occurs?

Choose one

1with open("test.txt", encoding = 'utf-8') as f:

# perform file operation

2try:

f = open("test.txt",encoding = 'utf-8')

# perform file operations

finally:

f.close()

3None of the above

4Both of the above

353 ###Answer 2

For the following code,

f = open('test.txt', 'r', encoding = 'utf-8')

f.read()

Which of the following statement is true?

Choose one

This program reads the content of test.txt file.

If test.txt contains newline, read() will return newline as '\n'.

You can pass an integer to the read() method.

All of the above.

354 ###Answer of the above

What does the following code do?

os.listdir()

355 ###Answer Prints all directories and files inside the given directory.

What is the output of the following code?number = 5.0try: r = 10/number

356 print(r)except: print("Oops! Error occurred.")####Answer 2.0

What does the following code do?

```
try:
 # code that can raise error
 pass

except (TypeError, ZeroDivisionError):
 print("Two")
```

- 357 `###answer` Prints Two if `TypeError` or `ZeroDivisionError` exception occurs.  
<https://www.techbeamers.com/python-interview-questions-experienced/>  
358 What Is The Function To Randomize The Items Of A List In-Place?  
359 <https://www.toptal.com/git/interview-questions>  
How do you revert a commit that has already been pushed  
360 and made public?