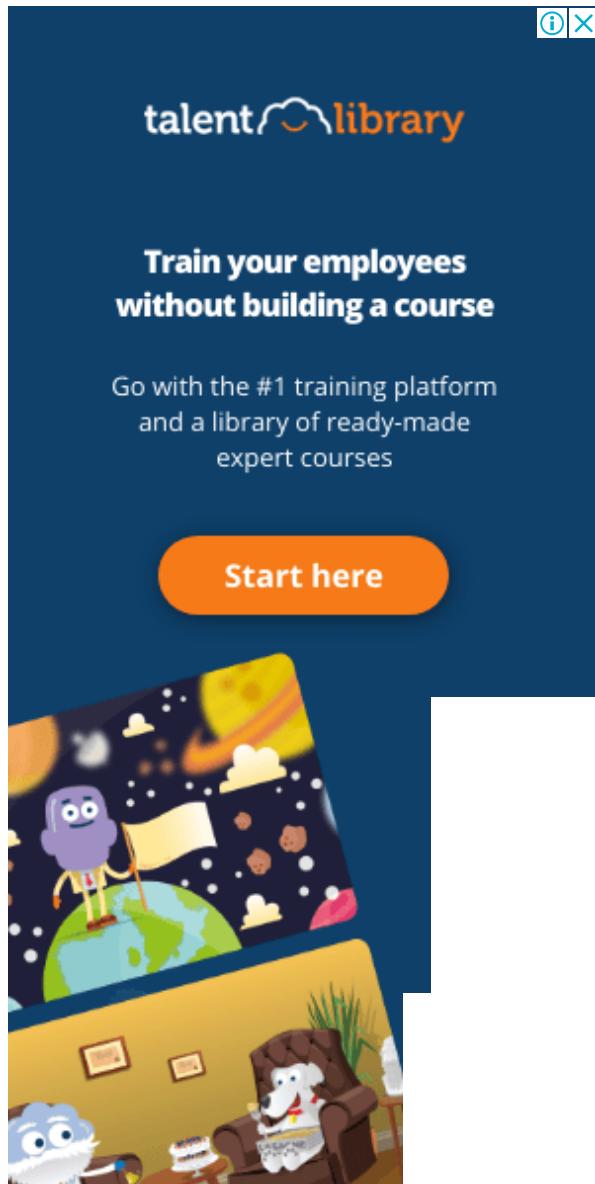


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Top Python Interview Questions And Answers

List of most frequently asked Python Interview Questions with answers and examples to help you crack any Python interview easily:

In this **Informative Python Series** of Tutorials, we have discussed many Python concepts in detail.

This article provides a list of the most frequently asked interview questions and answers about Python.

also has some questions directed towards the application of concepts and features. With this Q&A list, you would be able to prepare for any Python theoretical interview.

Top Python Interview Questions And Answers

Enlisted below are the most commonly asked interview questions and answers on **Python programming language**.

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Q #1) Can Python be used for web client and web server side programming? Which one is best suited to Python?

Answer: Python is best suited for web server-side application development due to its vast set of features for creating business logic, database interactions, web server hosting, etc. ×

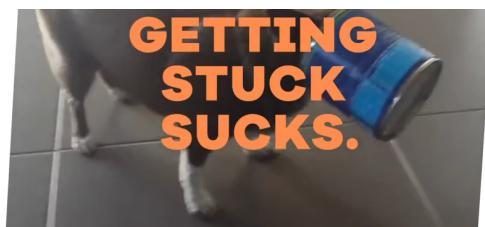
However, Python can be used as a web client-side programming language, but it requires a browser to interpret the client-side code.

Note: Python can be used to create desktop applications such as utilities for test automation.

Q #2) Mention at least 3-4 benefits of using Python over Javascript.

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asy.
nd of application development, including data
ive applications.
user's queries.

and provide at least one instance where each

erent data types that can be changed at run
er wants to store the items in a particular

ferent data types that cannot be changed. It
sed when the user wants to secure your data
ification.

similar data type. Basically, sets are used to
nion, intersection, differences, etc.

with key-value pairs. Dictionaries are used
the items with their values.

used by programmers as both of them provide

structured style?

:tured as well as Object-oriented style. It
offers excellent flexibility to design and implement the application code depending on the
requirements of the application.

Q #5) What is PIP software in the Python world?

Answer: PIP stands for Python Installer Package, which provides a seamless interface to install the various Python modules. It is a command-line tool that searches for packages over the Internet and installs them without any user interaction.

Q #6) What should be the typical build environment for Python development?

Answer: You just need to install Python and then you can start developing your application using various Python modules from the open-source community.

For IDE, Pycharm is highly recommended as it provides a lot of support for Python and also supports support for plugins. Another basic IDE is Eclipse which has a large open-source community.

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Q) What is Python code?

"`it test`" is the python standard library, which features are similar to the other unit testing tools

Q) What is a for loop in Python and when do you choose to use it?

• through the elements of various collection
Developers use a “for” loop where they have

is used in any other programming language.
have the end conditions.

om the other programming languages.

Q) How many bytes do integer and decimal numbers take up in memory?

a variable’s data type explicitly.

hon stores the appropriate data type. In the
ne length of data is unlimited.

Q) What is a list in Python?

ion?

Answer: Python does not have in-built data structures like arrays, and it does not support arrays. However, you can use List which can store an unlimited number of elements.

Q #11) How do you implement JSON given that Python is best suited for the server-side application?

Answer: Python has built-in support to handle JSON objects. The user just has to import the JSON module and use the functions such as `loads` and `dumps` to convert the JSON string to a JSON object and vice versa.

It is a straightforward way to handle and

Q #12) What is the best way to parse strings in Python?

Answer: Python has built-in support to

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is to find a substring.

i X

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An illustration featuring a purple, blob-like alien standing on Earth, holding a yellow flag. The background shows a dark sky with various planets and stars. In the foreground, a white dog wearing a graduation cap sits in a brown armchair, looking at a book titled "LEAPING OVER". A small blue robot-like character is partially visible at the bottom left.

hon?

nstructured) are the prominent databases that module and start using the functions to

1 in Python?

xecuted when an object of a class is
s attributes. This is equivalent to the

parameter in an object method? Should we

e object properties of a class. ‘self’ parameter properties. It is not necessary that it always any name.

a normal function in Python?

on in C programming. It returns a function
n accept any number of arguments.

- . function name, pass the parameter, and Lambda function is typically used for simple
- s. It can also be used in the place of a variable.

Q #17) How is Exception Handling done in Python?

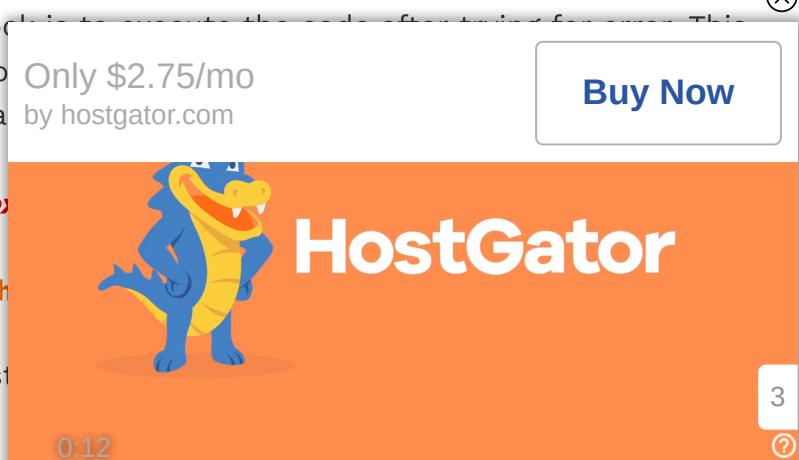
Answer: There are 3 main keywords:

- **Try:** Try is the block of a code that is monitored for errors.
 - **Except:** This block gets executed when an error occurs.
 - **Catch:** The beauty of the final block is that it gets executed irrespective of whether an error occurs or not. It is used to do the required cleanup after the execution of the try block.

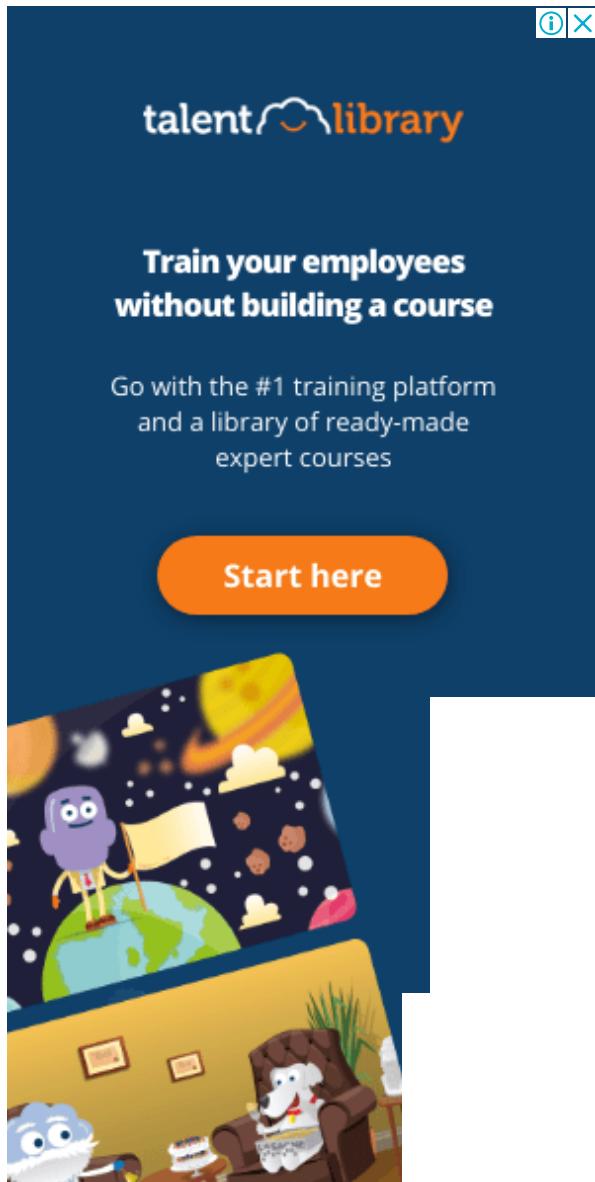
Suggested reading =>> How to handle ex

Q #18) What is the starting point of Python?

Answer: As Python is an interpreter, it starts executing them.



unction, you should have the following special



that are available in Python.

graphic services, Internet data handling, and Multi-part from these, there are several other developer community.

d to measure the performance of your

calculate the time at different stages of the ; data to a file system in any preferred format.

in the main process of a Python application?

sub-process. You can import this module and launch a subprocess and get control of its

**side applications, it is very important to have
ow can you achieve that in Python?**

to implement, control, and destroy threads for and Semaphores are available as between different threads.

Q #23) Do we need to call the explicit methods to destroy the memory allocated in Python?

Answer: In Python “Garbage” collection is an in-built feature that takes care of allocating and de-allocating memory. This is very similar to the feature in Java. Hence, there are very fewer chances of memory leaks in your application code.

Q #24) Does the same Python code work on multiple platforms without any changes?

Answer: Yes. As long as you have the Python installed on your system (Windows, Mac), you can run the same code on both.

Q #25) How can you create a GUI-based application in Python?

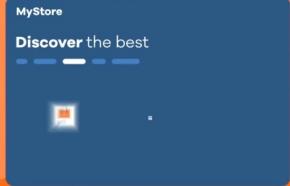
Answer: Python along with the standard library provides several modules for creating graphical user interface (GUI) applications. Tkinter library supports various windowing systems and is highly portable. It is also widget specific.

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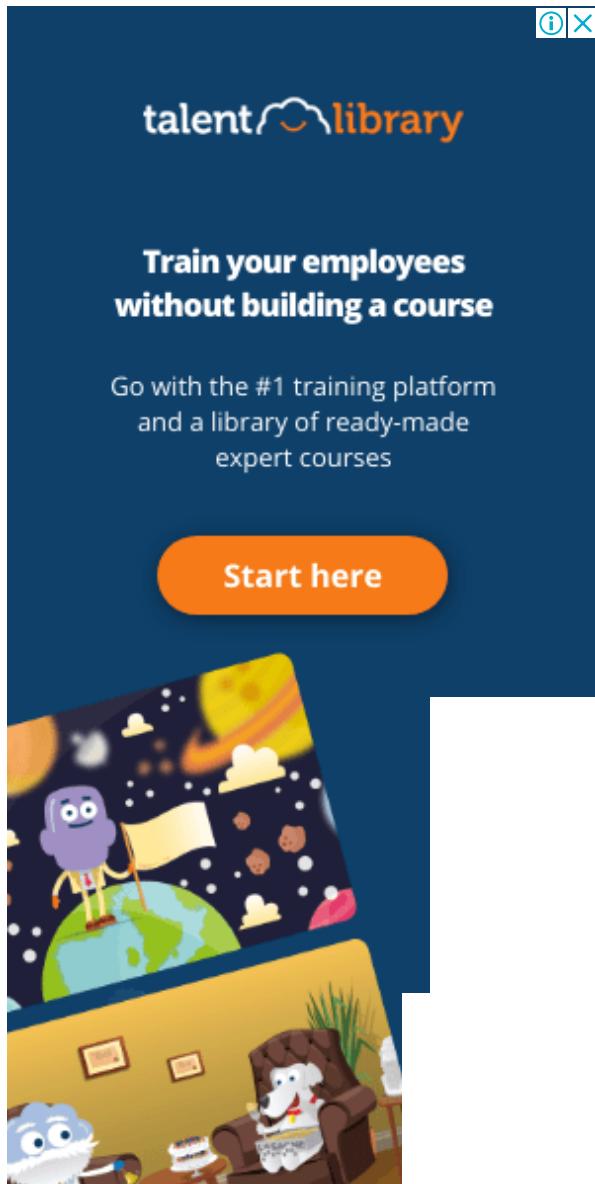


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Variables identified by Python?



I am a beginner in Python

Q #29) What does `stringVar.strip()` does?

Answer: This is one of the string methods which removes leading/trailing white space in the code.

Q #30) What should be the output of the following code?

```
a="pythontutorial"
print('%. 6s' % a)
```

Answer: Output: python

Q #31) Write a command to read:

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```
T = open ("softwaretestinghelp.txt ", "r")
print (f. read (10))
print (f. read ())
```

Output:

Python

is a powerful high-level, object-oriented programming language created by Guido van Rossum.

It has simple easy-to-use syntax, making computer programming for the first time

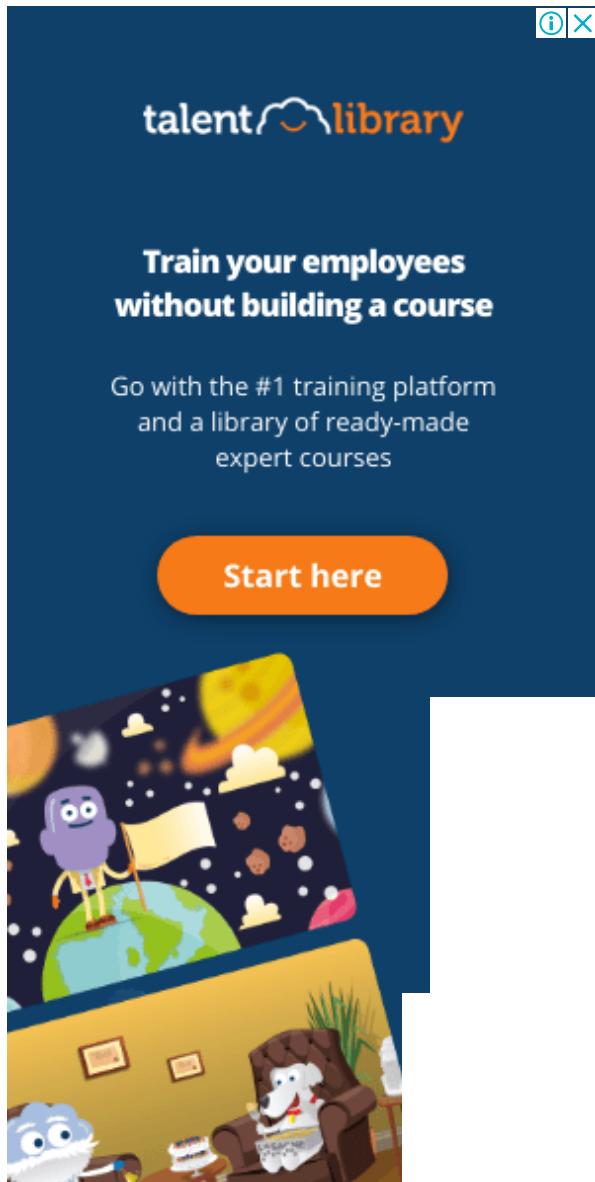
Q #32) What are membership operators

Answer: There are 2 types of membership operators

- **in:** If the value is found in a sequence

0:12

uence, then the result will be true else false.



t"

t"

ie.

e())
e)

tr = ' Python Language'?

Answer:

Output: hon Language

Q #35) Write the command to get all keys from the dictionary.

Answer: print dict.keys()

Q #36) Write a command to convert a str

Answer: int(x [,base])

Q #37) What are help () and dir() in python

Answer: "help ()" is a built-in function that displays help information about a particular object, method, attribute or module.

(X)

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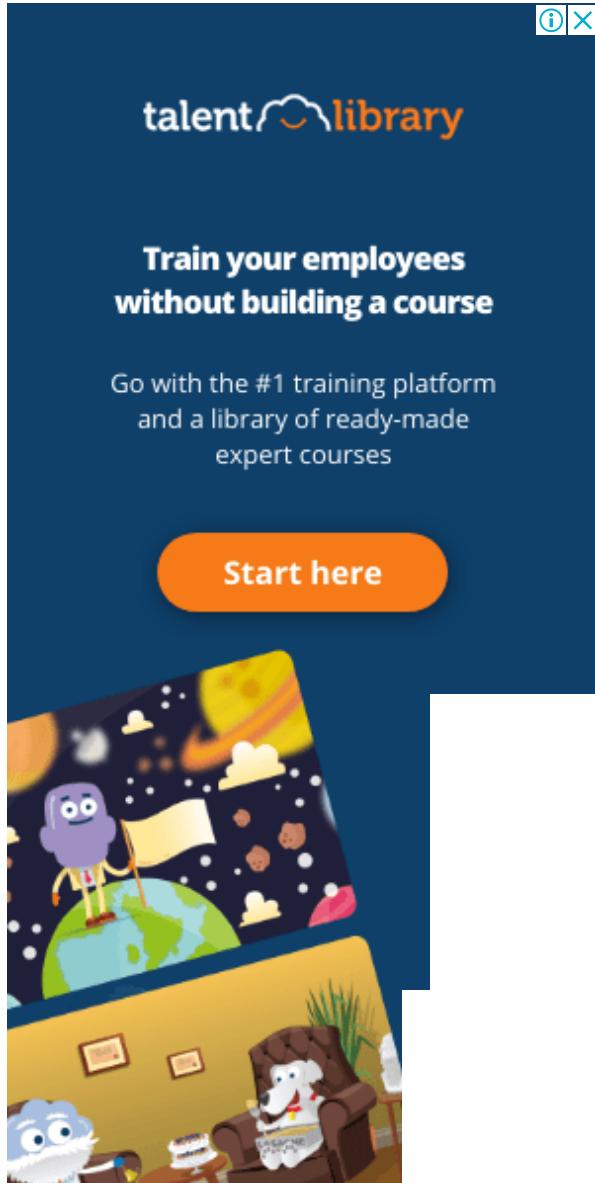
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\$ 12

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cts which are passed as an argument. If dir() of names in the current local space.



' refer to in Python?

cation of a module at run-time. In Python, the code at the run-time.

n?

hereby making a logical block of code are

ample to explain it.

ence of numbers.

Q #41) What is the difference between abs () and fabs ()?

Answer:

“abs ()” is a built-in function that works with integer, float, and complex numbers.

“fabs ()” is defined in the math module which doesn’t work with complex numbers.

Q #42) Write the output for the following

Code:

```
str = "Python is a programming language"
print (str.isalnum())
str = "This is Interview Question"
print (str.isalnum())
```

Answer: False

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write the syntax for it?

ibutes to be imported from a module in a

`ne2[, ... nameN]]`

() and globals()?

on and it returns all names that can be

sed globally from that function.

n?

the expression attached. If the expression is
ception.

'i' and 'search' in Python?

eginning of the string, whereas **search** checks

low copy and deep copy?

- Shallow copy is used when a new instance type gets created and it keeps values that are copied.
- Deep copy stores values that are already copied.

A shallow copy has faster program execution whereas deep copy makes it slow.

Q #48) What statement is used in Python if the statement is required syntactically, but no action is required for the program?

Answer: Pass statement

Example:

```
If(a>10)
print("Python")
else
pass
```

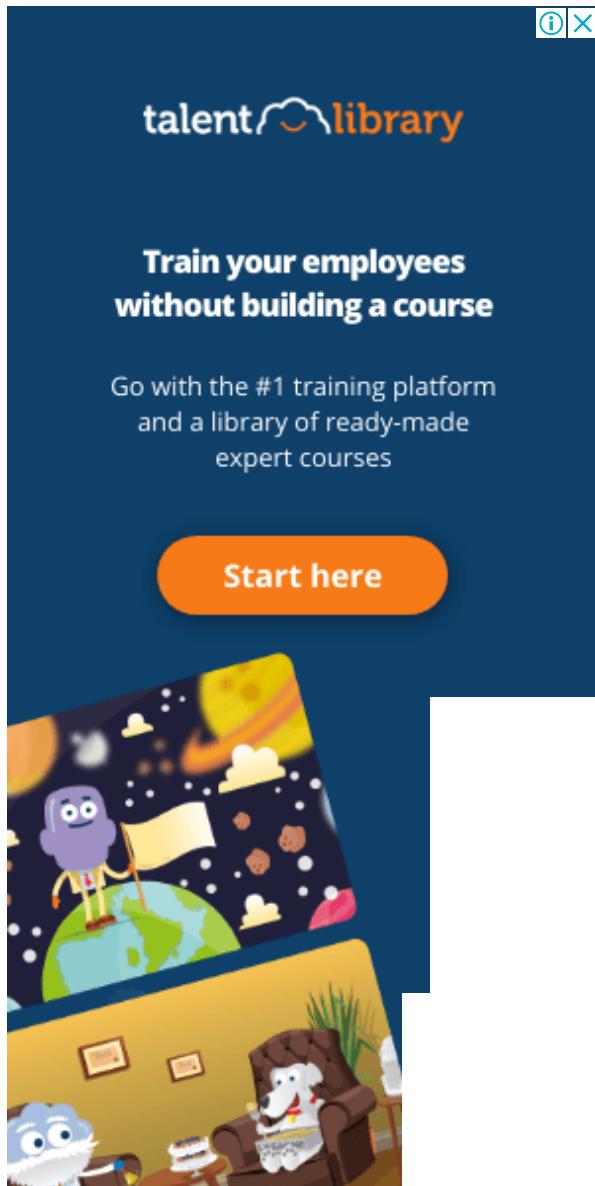
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The value of demo: 10910432

The output will be the same for both statements. Whereas “ id ” is the built-in function in Python which is known as the RAM.

Q #52) Is Python case sensitive?

Answer: Python is a case-sensitive language which means “ Python ” and “ python ” have different meanings. In future always try to use the correct case while defining variables.

For example, “ a = 1 ” and “ turn = 1 ”. There is a difference in the name. “ turn ” variable

Q #53) Is indentation required in python?

Answer: Yes, indentation is required in Python to make the code readable and to avoid the silly indentation errors. Indentations

a set of recommendations of how to make the

number of arguments to a function. “ *args ” is used to pass argument lists whereas “ *kwargs ” is used to pass keyword arguments.

of the same names and to make sure to define them in the same space ” is used.

)
o))

:the variable “ demo ” which gets stored in the memory space” .

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it is very important to indent the code in a
is " for indentation in Python programs.

objects get converted into string
the objects in Python. Pickling is used to

```
fix_imports=True, buffer_callback=None)
imports=True, buffer_callback=None)
oding="ASCII", errors="strict", buffers=None)
=True, encoding="ASCII", errors="strict",
```

; process, and the other two methods are used

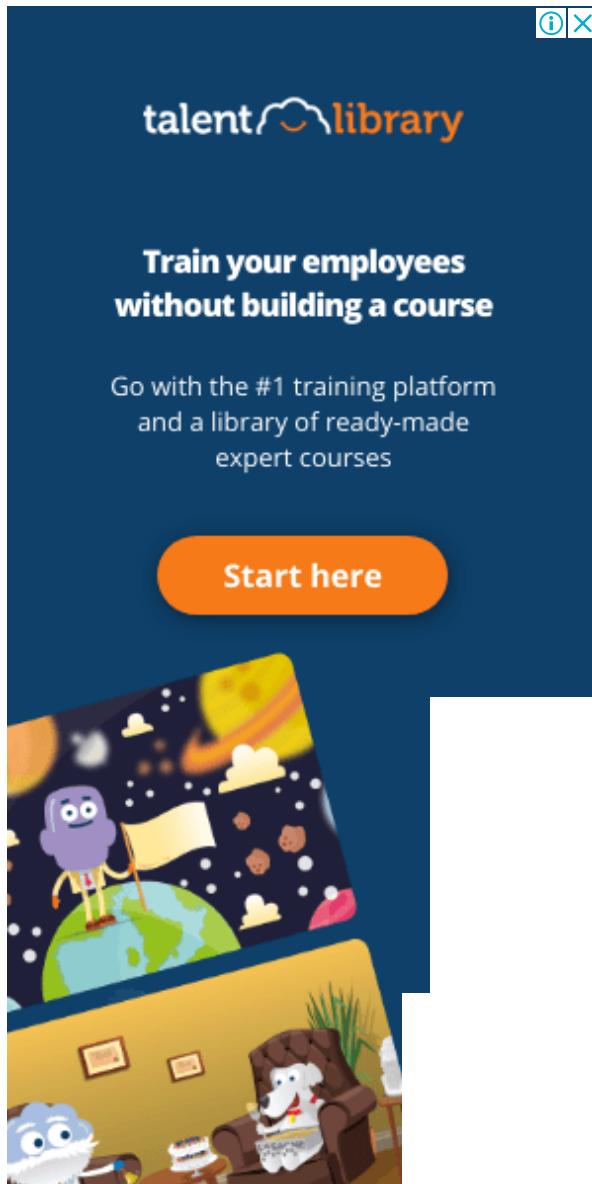
npickling".

on which return the repeated sets of items.
the "yield" keyword is used to create the

```
```
def demo_gen():
 num = 10
 print('Statement number 1')
 yield num
 num += 1
 print('Statement number 2')
 yield num
 num += 1
 print('Statement number 3')
 yield num
for item in demo_gen():
 print(item)
````
```

Output:

Statement number 1



number of elements/items in the List, String, etc.

object is a string.

multiple Python modules. The modules relate to a package. When the program needs the module, it is imported and the modules are used by the program.

Q #58) Does Python have OOPS concepts?

Answer: Yes, Python is an OOPS language. We can define the classes and inherit them by creating the models. **The following are the main parts of OOPS:**

- Class
- Object
- Method
- Inheritance
- Polymorphism
- Data Abstraction
- Encapsulation

Q #59) What is Polymorphism in Python?

Answer: Polymorphism is the capability of one object to take many forms. Python supports polymorphism. It uses the single class and multiple methods to handle different conditions.

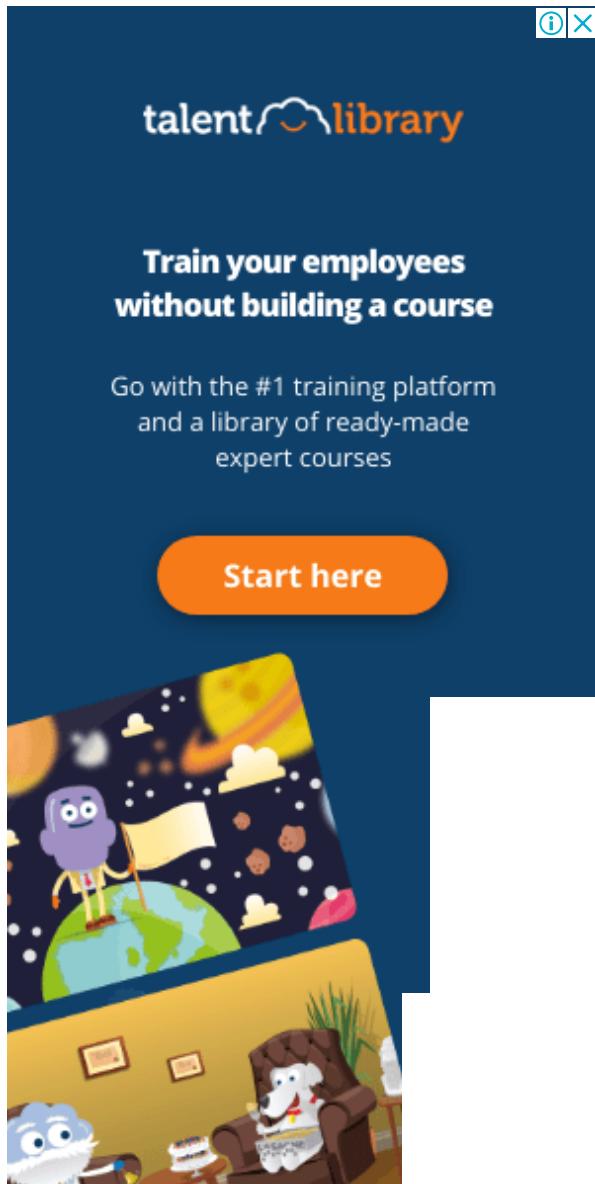
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... the above example, we have two classes "ognis" and "Splendor". But both have the same objects "Color" and "type", which performs the process of polymorphism.

Q #60) Define encapsulation in Python?

Answer: Encapsulation means to encapsulate the code into one. For example we make classes in the program which encapsulates all the objects in it. The way to use encapsulation is almost the same in all the other programming languages. It provides a way to access the objects of the class without explaining the full Python program.

It will secure the global members of the class and also help to secure the data of the program.

For example:

```
```
class Man:
 def __init__(self, name, child):
 self.name = name
 self.child = child
```

```

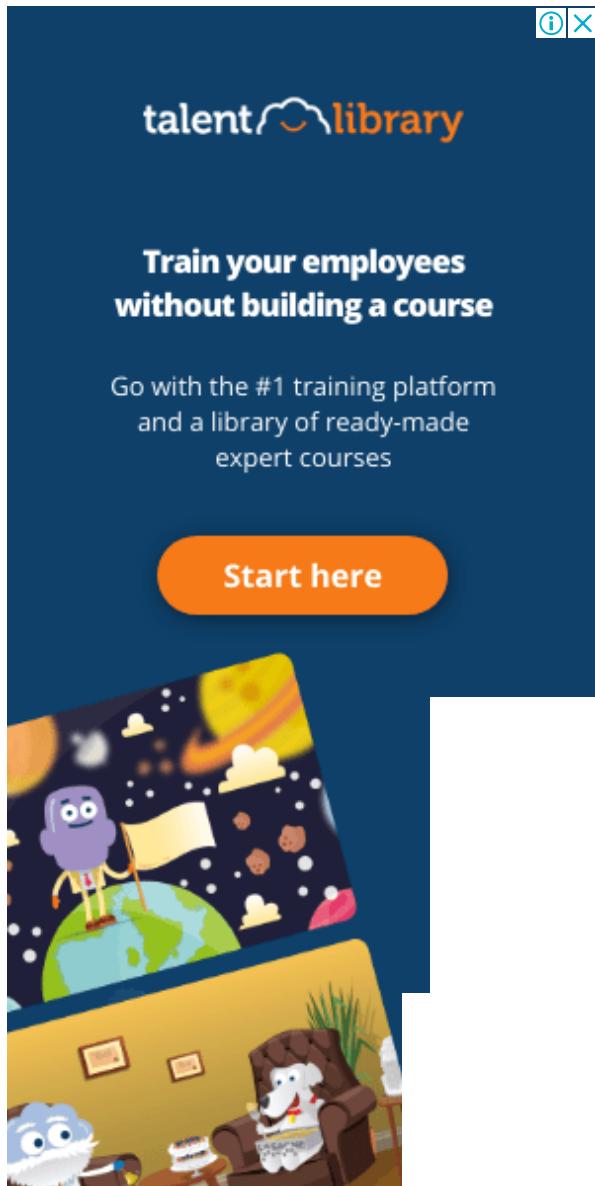
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accessing it using class method
it directly from outside.

ion?

implementation of a program from the world.
ot inherit further. To make the abstract class

didn't see the inner parts like inside the car
orks as an abstraction. It hides the inner parts

We hope this **Python Interview Questions article** helped you to understand the nature of popular interview questions related to python.

Kindly note that apart from theoretical knowledge, you must possess very strong logical and analytical skills to write some Python programs during the interview session.

Wish you all the best!!

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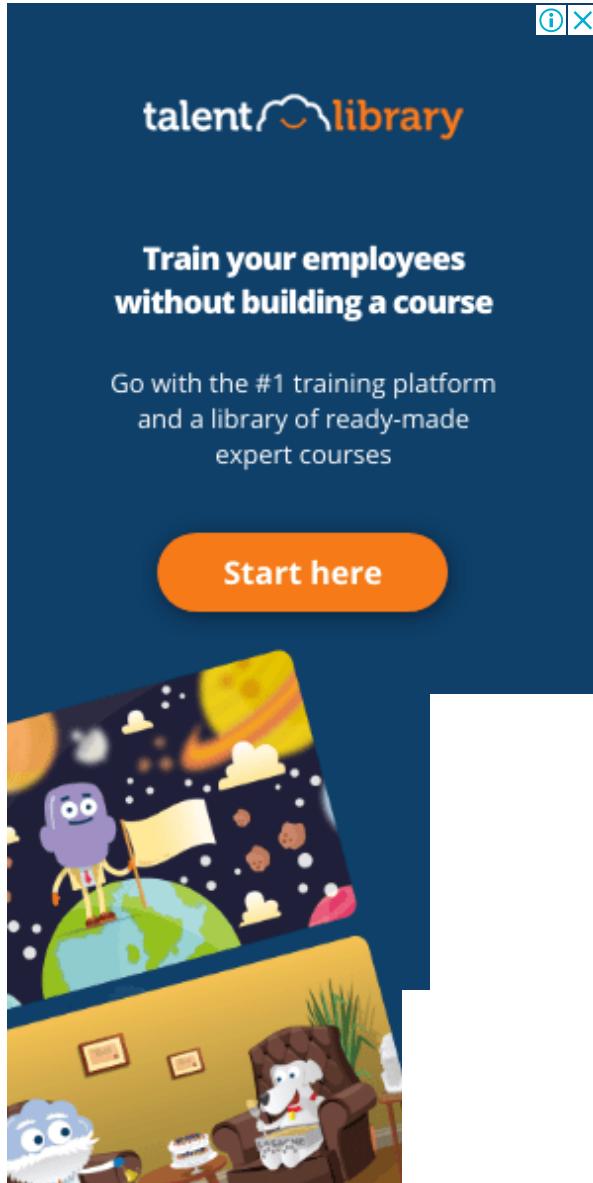
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Python Variables

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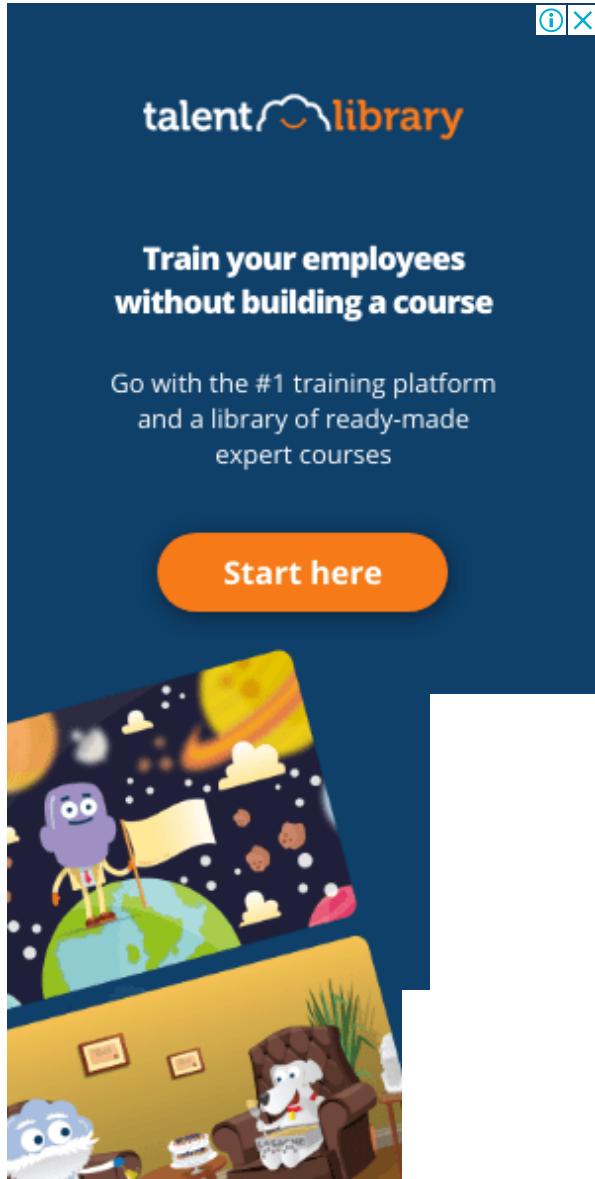
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