



Bhaskars Engineering Design and IT Service Center

(Placement Consultancy & Engineering Service Organization)



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Computer Science and IT Engineering

INTERVIEW QUESTIONS & ANSWERS

Basic – Advance Level

Syllabus Content - 1

✓ **Python**

Note: Dear Students

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Interview Questions & Answers

1. What is Python?

Python is a high-level, interpreted programming language that is easy to learn, write and read.

2. What are the key features of Python?

Python has a simple syntax, is easy to learn, has a large library of built-in functions and modules, is open-source, and is platform-independent.

3. What is the difference between a list and a tuple in Python?

Lists are mutable, meaning they can be modified after creation, while tuples are immutable and cannot be changed once they are created.

4. How do you create a virtual environment in Python?

To create a virtual environment in Python, use the command “python -m venv <name_of_environment>”.

5. What is a decorator in Python?

A decorator is a function that takes another function as an argument and extends the behavior of the latter function without modifying it.

6. What is a lambda function in Python?

A lambda function is a small, anonymous function that can have any number of arguments, but can only have one expression.

7. What is the purpose of the init method in Python?

The init method is a special method in Python classes that is automatically called when a new instance of the class is created. It is used to initialize the object's attributes.

8. What is the difference between a deep copy and a shallow copy in Python?

A deep copy creates a completely new object with its own memory space, while a shallow copy creates a new object that references the original object's memory space.

Interview Questions & Answers

9. What is the purpose of the “self” keyword in Python?

The “self” keyword is used as a reference to the current instance of a class, allowing it to access its own attributes and methods.

10. How do you handle exceptions in Python?

Exceptions in Python can be handled using the try-except statement, where code that may raise an exception is enclosed in the try block, and any exceptions are caught and handled in the except block.

10. What is the difference between a local and global variable in Python?

A local variable is a variable that is defined within a function and is only accessible within that function, while a global variable is a variable that is defined outside of a function and can be accessed from any part of the code.

11. What is a module in Python?

A module is a file containing Python code that can be imported and used in other Python programs.

12. How do you import module in Python?

To import a module in Python, use the “import” keyword followed by the name of the module.

13. What is a package in Python?

A package is a collection of modules that are organized in a hierarchical directory structure.

14. What is the purpose of the “if name == ‘main’:” statement in Python?

The “if name == ‘main’:” statement is used to check whether a Python file is being executed as the main program or being imported as a module.

15. What is a generator in Python?

A generator is a function that returns an iterator, allowing values to be generated on-the-fly rather than being stored in memory.

Interview Questions & Answers

16. What is the purpose of “yield” keyword in Python?

The “yield” keyword is used in generator functions to return a value and pause the function’s execution, allowing it to resume where it left off when called again.

17. What is a list comprehension in Python?

A list comprehension is a concise way to create a new list based on an existing iterable.

18. What is a dictionary in Python?

A dictionary is a collection of key-value pairs, where each key is unique and maps to a value.

19. How do you iterate over a dictionary in Python?

A slice in Python is a portion of a sequence (such as a string, list, or tuple) that can be extracted using slice notation.

20. What is a slice in Python?

A slice in Python is a portion of a sequence (such as a string, list, or tuple) that can be extracted using slice notation.

21. What is a function in Python?

A function in Python is a block of code that performs a specific task and can be called from other parts of the code.

22. How do you define a function in Python?

To define a function in Python, use the “def” keyword followed by the function name and parameter list, and then the function body.

23. What is a lambda expression in Python?

A lambda expression in Python is a small anonymous function that can have any number of arguments, but can only have one expression.

24. What is a closure in Python?

A closure in Python is a function that retains the values of its enclosing scope, even after the scope has been exited.



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