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1. What is the difference between 'is' and '==' operators in Python?

- 'is' operator compares the identity of two objects, i.e., if they are the same object in memory. '==' operator compares the values of two objects.

2. What are the built-in data types in Python?

- The built-in data types in Python are integers, floats, strings, booleans, lists, tuples, and dictionaries.

3. What is a conditional statement in Python?

- A conditional statement in Python is a statement that checks a condition and executes a code block if the condition is true.

4. What are the three types of conditional statements in Python?

- The three types of conditional statements in Python are if, elif, and else.

5. What is a loop in Python?

- A loop in Python is a control flow statement that allows you to execute a piece of code multiple times.

6. What are the two types of loops in Python?

- The two types of loops in Python are 'for' and 'while'.

7. What is a function in Python?

- A function in Python is a block of reusable code that performs a specific task.

8. What is the syntax for defining a function in Python?

The syntax for defining a function in Python is:

```
def function_name(parameters):
```

```
# code to be executed
```

- return output

9. What is the 'return' statement in Python?

- The 'return' statement in Python is used to return a value from a function.

10. What is recursion in Python?

- Recursion in Python is a process in which a function calls itself directly or indirectly.

11. What is a lambda function in Python?

- A lambda function in Python is an anonymous function that is defined without a name.

12. What is a generator in Python?

- A generator in Python is a function that returns an iterator object.

13. What is the difference between 'append' and 'extend' methods in Python?

- 'append' method adds a single element to the end of a list. 'extend' method adds multiple elements to the end of a list.

14. What is the 'pop' method in Python?

- The 'pop' method in Python removes and returns the last element from a list.

15. What is the 'join' method in Python?

- The 'join' method in Python is used to join a list of strings into a single string, using a specified delimiter.
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16. What is the difference between a list and a tuple in Python?

- A list is mutable, i.e., it can be modified after creation. A tuple is immutable, i.e., it cannot be modified after creation.

17. What is the difference between a function definition and a function call in Python?

- A function definition in Python defines a function, i.e., it specifies the name, parameters, and code to be executed. A function call in Python calls a defined function with specified arguments, i.e., it executes the code inside the function.

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

- A local variable in Python is defined inside a function and can only be accessed within that function. A global variable in Python is defined outside a function and can be accessed anywhere in the program.

19. What is the 'range' function in Python?

- The 'range' function in Python is used to generate a sequence of numbers.

20. What is a 'try-except' block in Python?

- A 'try-except'