

Q.1 What Is Python, And Why Is It Popular...?

Ans: Python Is A High-Level, Interpreted Programming Language. Because Ease Of Learning, A Lot Of Libraries.

Q.2 What Is An Interpreter In Python?

Ans: Interpreter In Python Is A Program That Executes Python Code Directly, Line By Line.

Q.3 What Are Pre-Defined Keywords In Python?

Ans: The Pre-Defined Keywords Are – True, False, If, Else, Elif, And, Or Help, Print Etc.

Q.4 Can Keywords Be Used As Variable Names?

Ans: No, Keywords Cannot Be Used As Variable Names.

Q.5 What Is Mutability In Python?

Ans: Mutability Means Change The Value. List Is A Type Of Mutable Objects.

Q.6 Why Are Lists Mutable, But Tuples Are Immutable?

Ans: Lists Are Mutable Because It Can Be Modified After Creation That's Why List Is Mutable. And Tuples Are Immutable Because It Cannot Be Changed Or Modified After Created That's Why Tuples Are Immutable.

Q.7 What Is The Difference Between “==” And “Is” Operators In Python?

Ans: The “==” Operator Is Used To Compare The Value. And “Is” Operator Is Used To Check If Two Variables Point To The Same Object.

Q.8 What Are Logical Operators In Python?

Ans: Logical Operators Are Used To Combine Conditional Statements And Make Decisions Based On Multiple Conditions. Logical Operator In Python Is: And, Or, Not.

Q.9 What Is Type Casting In Python?

Ans: Casting Means Convert And Type Means Data Type. The Process Of Changing The Data Of A Value/Objects.

Q.10 What Is The Difference Between Implicit And Explicit Type Casting?

Ans: Implicit Type Casting Means Interpreter Automatically Without Any Explicit Instruction From The Program. And Explicit Means Convert Manually One Data Type To Another. Ex.:

1: Str To Int

2: Float To Int

3: Int To Float

4: Str To Float

5: Int To Str

Q.11 What Is The Purpose Of Conditional Statements In Python?

Ans: Helps You To Code Decision Based On Some Precondition.

Ex: 1: If

2: If Elie

3: If Leif

4: Nested If Else

Q.12 How Does The Elif Statement Work?

Ans: Elif Are Used To Checking For Multiple Statement. If, If Condition Are True So, Elif Are Executed The Value And Do Not Check Any Other Statement.

Q.13 What Is The Difference Between For And While Loops?

Ans: The While Loop In Python Is Used To Repeatedly Execute A Block Of Code As Long As A Given Condition Is True.

Q.14 Describe A Scenario Where A While Loop Is More Suitable Than A For Loop.

Ans: In While Loop Number Of Iterations A Loop Has To Iterate Is Unknown Beforehand But In For Loop Number Of Iterations It Has To Iterate Is Known Beforehand So As Per Situation, We Use One Of Them Which Suits Our Requirements.