1. What are the new features added in Python 3.8 version?

Ans : Python 3.8 brings a number of slick syntax changes, memory sharing, more efficient serialization and deserialization, revamped dictionaries, and much more.

Naturally, Python 3.8 ushers in all manner of performance improvements as well. The overall result is a faster, more concise, more consistent, and more modern Python.

Assignment expressions

The single most visible change in Python 3.8 is assignment expressions, which use what is known as the walrus operator ( := ). Assignment expressions allow a value to be assigned to a variable, even a variable that doesn’t exist yet, in the context of an expression rather than as a stand-alone statement.

1. What is monkey patching in Python?

Ans : In Python, the term monkey patch only refers to dynamic modifications of a class or module at runtime, which means monkey patch is a piece of Python code that extends or modifies other code at runtime

1. What is the difference between a shallow copy and deep copy?

Ans :

| Shallow Copy | Deep Copy |
| --- | --- |
| Shallow Copy stores the references of objects to the original memory address. | Deep copy stores copies of the object’s value. |
| Shallow Copy reflects changes made to the new/copied object in the original object. | Deep copy doesn’t reflect changes made to the new/copied object in the original object. |
| Shallow Copy stores the copy of the original object and points the references to the objects. | Deep copy stores the copy of the original object and recursively copies the objects as well. |
| Shallow copy is faster. | Deep copy is comparatively slower. |

1. What is the maximum possible length of an identifier?

Ans : Identifiers can be a combination of letters, numbers, special symbols, etc. But it must not extend 31 characters. Hence, the maximum possible length of an identifier is 31 characters.

1. What is generator comprehension?

Ans :

A generator comprehension is a single-line specification for defining a generator in Python. It is absolutely essential to learn this syntax in order to write simple and readable code.