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WGU Foundations of Computer Science Sample Questions (Q24-Q29):

NEW QUESTION # 24

How is the NumPy package imported into a Python session?

- A. `import numpy as np`
- B. `using numpy`
- C. `include numpy`
- D. `import num_py`

Answer: A

Explanation:

In Python, external libraries are brought into a program using the import statement. NumPy, which provides the ndarray type and a large collection of numerical computing functions, is conventionally imported with an alias for convenience. The standard and widely taught pattern is `import numpy as np`. This imports the numpy module and binds it to the shorter name np, making code more readable and reducing repeated typing, especially in mathematical expressions such as `np.array(...)`, `np.mean(...)`, or `np.dot(...)`.

Option A is incorrect because the module name is numpy, not num_py. Options C and D resemble syntax from other languages (for example, "using" in C# or "include" in C/C++), but they are not valid Python import mechanisms. Python's module system is based on imports, and the aliasing feature (as np) is built into the import statement.

Textbooks also emphasize that importing a package requires that it be installed in the active Python environment. If NumPy is not installed, `import numpy as np` will raise an ImportError (or ModuleNotFoundError in modern Python). Once imported, the alias np is used consistently in scientific computing materials, notebooks, and professional data analysis codebases, which is why this option is considered the correct and expected answer.

NEW QUESTION # 25

What is the slicing outcome of `client_locations[1:3]` from `client_locations = ["TX", "AZ", "UT", "NY"]`?

- A. ["TX", "AZ"]
- B. ["AZ", "UT"]
- C. ["UT", "NY"]
- D. ["TX", "UT"]

Answer: B

Explanation:

Python list slicing uses the notation `list[start:stop]`, where start is inclusive and stop is exclusive. This means the slice begins at index start and includes elements up to, but not including, index stop. Lists in Python are zero-indexed, so for `client_locations = ["TX", "AZ", "UT", "NY"]`, the indices are: 0 # "TX", 1 # "AZ", 2 # "UT", 3 # "NY".

The slice `client_locations[1:3]` starts at index 1 and stops before index 3. Therefore, it includes elements at indices 1 and 2, which are "AZ" and "UT". The result is ["AZ", "UT"].

This slice rule is heavily emphasized in programming textbooks because it supports efficient sub-list extraction and is consistent across Python sequence types such as strings and tuples. It also helps avoid off-by-one errors by using an exclusive end boundary. The exclusive stop index makes it easy to take

"the first n items" via `[0:n]` and to split sequences at a boundary without overlap. In practical software development, slicing is widely used for batching data, windowing in algorithms, and parsing structured inputs, making it an essential Python skill.

NEW QUESTION # 26

What happens if one element of a NumPy array is changed to a string?

- A. All elements in the array are coerced to strings.
- B. The array becomes a list of the original integers.
- C. The operation is not allowed and raises an error.
- D. All elements in the array are coerced to integers.

Answer: C

Explanation:

A central rule in NumPy is that an ndarray has a single, fixed data type called its dtype. That dtype is chosen when the array is created (for example, int64, float64, etc.), and it normally does not change just because you assign a new value into one element. When you attempt an assignment, NumPy tries to cast the assigned value into the array's existing dtype. If the cast is possible, the assignment succeeds; if the cast is impossible, NumPy raises an error.

So, if you have a numeric array such as `arr = np.array([1, 2, 3])`, its dtype is an integer type. Trying `arr[0] = "hello"` cannot be converted into an integer, so NumPy raises a ValueError (a casting/conversion error). This is exactly the behavior textbooks highlight when contrasting NumPy arrays with Python lists: lists can hold mixed types freely, but NumPy arrays trade that flexibility for speed and memory efficiency via uniform typing.

Option A is a common misconception. While NumPy may "upcast" values to a more general dtype at array creation time when mixed types are provided (e.g., numbers and strings in the same constructor), a pre-existing numeric array will not automatically convert itself into a string array during a single-element assignment. Options C and D do not reflect NumPy's assignment rules.

NEW QUESTION # 27

What are Python functions that belong to specific Python objects?

- A. Modules
- B. Scripts
- C. Methods
- D. Libraries

Answer: C

Explanation:

In object-oriented programming, a method is a function that is associated with an object (or its class) and is called using the dot operator. In Python, everything is an object, and many operations are provided through methods. For example, "hello".upper() calls the upper method of a str object, and [1, 2, 3].append(4) calls the append method of a list object. Textbooks emphasize that methods operate on an object's internal state and typically receive the object itself as an implicit first argument (commonly named self in class definitions).

This is what distinguishes methods from standalone functions.

Modules, scripts, and libraries are different organizational concepts. A module is a file containing Python code, including function and class definitions. A script is a Python program intended to be run directly. A library is a collection of modules that provides reusable functionality. None of these terms specifically mean

"functions that belong to objects."

Understanding methods matters because it connects to encapsulation and abstraction: objects provide behaviors (methods) that manipulate their data in well-defined ways. This design enables clearer APIs and supports polymorphism, where different object types can expose methods with the same name but different implementations. In Python, method calls are central to working with built-in types (strings, lists, dictionaries) and with user-defined classes, making "methods" the correct term for functions that belong to specific objects.

NEW QUESTION # 28

What is the name of the tool that can allow a device to run more than one operating system at a time as virtual machines?

- A. Bootloader
- B. System Restore
- C. Partition Manager
- D. Hypervisor

Answer: D

Explanation:

A hypervisor is the software layer that enables virtualization—running multiple operating systems concurrently on the same physical hardware as separate, isolated virtual machines (VMs). Operating systems textbooks describe the hypervisor as managing and multiplexing core hardware resources such as CPU, memory, storage, and I/O devices among multiple guest operating systems. Each VM behaves as if it has its own hardware, while the hypervisor enforces isolation and schedules resource usage.

Hypervisors come in two broad categories. Type 1 (bare-metal) hypervisors run directly on the hardware (common in data centers), while Type 2 (hosted) hypervisors run as applications on top of a host OS (common on desktops). In both cases, the hypervisor is the key tool that makes "more than one OS at a time" possible.

System Restore is a recovery feature, not a virtualization platform. A partition manager can split a disk into multiple partitions, which can support dual-boot setups, but that runs only one OS at a time, not concurrently as VMs. A bootloader selects which OS to start at boot time; again, that is not simultaneous virtualization. Therefore, the correct tool that allows running multiple operating systems simultaneously as virtual machines is the hypervisor.

NEW QUESTION # 29

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