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What is the loop variable initialization in the following pseudocode?
`y = 0 s = 100.0 while y < 10 s = s + (s * 5.0) y = y + 1`

A `y = 0`
B `y = y + 1`
C `s = 100.0`
D `s = s + (s * 5.0)`

ANSWER: A

What does the following algorithm determine? if `x == y`
`z = 1` else `z = 0`

A Whether `x` and `y` are the same
B Whether `x` and `y` are negative
C Whether `x` is 1
D Whether `x` is 0

ANSWER: A

What does the following algorithm accomplish?
`x = Get next input` if `x == -1`
Put "Goodbye" to output

A Outputs -1 when user types any input
B Outputs "x" when user types -1
C Outputs -1 when `x` is positive
D Outputs Goodbye when user types -1

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WGU Foundations of Programming (Python) - E010 JIV1 Sample Questions (Q29-Q34):

NEW QUESTION # 29

Which Python data structure contains only unique elements and does not support indexing?

- A. List
- **B. Set**
- C. Dictionary
- D. Tuple

Answer: B

Explanation:

A set is a Python data structure that stores only unique elements. This means duplicate values are automatically removed.

Example:

```
numbers = {1, 2, 2, 3}
print(numbers)
```

Output:

```
{1, 2, 3}
```

The duplicate value 2 appears only once in the set.

Sets are also unordered, so they do not support indexing like lists or tuples do. For example, `numbers[0]` would cause an error because sets are not accessed by position.

The official Python documentation describes sets as unordered collections with no duplicate elements.

Therefore, the correct answer is D. Set.

NEW QUESTION # 30

Write a complete function `calculate_discount(price, discount_percent)` that calculates and returns the final price after applying a discount percentage.

For example, `calculate_discount(75, 20)` should return 60.0.

```
def calculate_discount(price, discount_percent):
# TODO: Calculate and return the final price after discount
pass
```

Answer:

Explanation:

See the Step by Step Solution below in Explanation.

Explanation:

Step 1: The function receives the original price and the `discount_percent`.

Step 2: Convert the discount percentage into a decimal by dividing by 100.

Step 3: Subtract the discount from 1 to find the remaining price percentage.

Step 4: Multiply the original price by the remaining percentage.

Correct code:

```
def calculate_discount(price, discount_percent):
return price * (1 - discount_percent / 100)
```

Example:

```
print(calculate_discount(75, 20))
```

Output:

```
60.0
```

NEW QUESTION # 31

What advantage does an integrated terminal provide compared to using a separate terminal application?

- A. Faster code execution speed
- B. Access to additional Python libraries
- C. Automatic syntax error detection
- **D. Eliminates need to switch between applications**

Answer: D

Explanation:

An integrated terminal is built into a development environment or code editor. Its main advantage is that the developer can write code and run terminal commands in the same application.

This avoids switching back and forth between a separate terminal window and the code editor.

Therefore, the correct answer is C. Eliminates need to switch between applications.

NEW QUESTION # 32

A dictionary `prices = {'apple': 1.50, 'banana': 0.75, 'orange': 2.00}` needs to have all values increased by 0.25. Which code correctly accomplishes this task?

- A. `for value in prices:value = value + 0.25`
- **B. `for item in prices:prices[item] = prices[item] + 0.25`**
- C. `for prices in item:prices = prices + 0.25`

Answer: B

Explanation:

In Python, iterating directly over a dictionary gives its keys. In this dictionary, the keys are:

'apple'

'banana'

'orange'

To update each price, the program can loop through each key and use that key to access and change the corresponding value.

Correct code:

```
prices = {'apple': 1.50, 'banana': 0.75, 'orange': 2.00}
```

```
for item in prices:
```

```
    prices[item] = prices[item] + 0.25
```

```
print(prices)
```

Output:

```
{'apple': 1.75, 'banana': 1.0, 'orange': 2.25}
```

Option B is incorrect because `value` actually receives each dictionary key, not each dictionary value. Also, assigning to `value` would not update the dictionary.

Option C is incorrect because `item` is not defined, and the loop structure is invalid for this task.

NEW QUESTION # 33

Fix the logic error in this function that should return the larger of two numbers.

```
def find_maximum(a, b):
```

```
    if a < b:
```

```
        return a
```

```
    else:
```

```
        return b
```

Answer:

Explanation:

See the Step by Step Solution below in Explanation.

Explanation:

Step 1: The function should return the larger number.

Step 2: The condition `a < b` means `b` is larger than `a`.

Step 3: In the original code, when `a < b` is true, it incorrectly returns `a`.

Step 4: The return values need to be corrected.

Correct code:

```
def find_maximum(a, b):
```

```

if a < b:
    return b
else:
    return a
Alternative correct code:
def find_maximum(a, b):
    if a > b:
        return a
    else:
        return b
Example:
print(find_maximum(10, 20))
print(find_maximum(30, 15))
Output:
20
30

```

NEW QUESTION # 34

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