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**Question: 427**

What will be the output of the following code snippet: `print(type([]) is list)`?

- A. True
- B. False
- C. None
- D. TypeError

Answer: A

Explanation:

The expression `type([])` returns the type of an empty list, which is `list`. The comparison `is` checks if both operands refer to the same object, and since they do, the output will be `True`.

**Question: 428**

Which of the following Python statements will correctly create a list containing the numbers 1 to 10 inclusive?

- A. `numbers = [1:10]`
- B. `numbers = list(range(1, 11))`
- C. `numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]`
- D. `numbers = (1, 10)`

Answer: B

Explanation:

To create a list of numbers from 1 to 10 inclusive, we can use the `range` function with `list()` to convert it into a list.

`numbers = list(range(1, 11))` produces `[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]`.

The other options either use incorrect syntax or create a tuple.

**Question: 429**

What will be the output of the following code that uses the `filter()` function?

```
nums = [1, 2, 3, 4, 5]
even_nums = list(filter(lambda x: x % 2 == 0, nums))
```

```
print(even_nums)
```

- A. [1, 2, 3]
- B. [2, 4]
- C. [1, 3, 5]
- D. [1, 2, 3, 4, 5]

Answer: B

Explanation: The filter() function applies the lambda function to each element in nums, keeping only even numbers. The resulting list is [2, 4].

### Question: 430

What will be the output of the following code?

```
def f(a, b=1, c=2):  
    return a * b + c
```

```
print(f(5, 2))
```

- A. 12
- B. 15
- C. 20
- D. 8
- E. 9
- F. The function will raise an error.

Answer: A

Explanation:

In this function, f takes three parameters, with b and c having default values. When called with 5 for a and 2 for b, it calculates  $5 * 2 + 2$ , which equals 12.

### Question: 431

What will be the output of the following code when executed?

```
def my_function(x):  
    return x + 1
```

```
result = my_function(3)
print(result)
```

- A. 2
- B. 3
- C. 4
- D. None

Answer: C

Explanation:

The function `my_function` takes an argument `x`, adds 1, and returns the result. For the input 3, it returns 4.

**Question: 432**

Consider the following snippet of code. What will be printed when the function `func` is called with the argument 4?

```
def func(n):
    return (n + 1) if n % 2 == 0 else (n - 1)
```

```
print(func(4))
```

- A. 3
- B. 4
- C. 5
- D. 2
- E. None

Answer: C

Explanation:

When `func(4)` is called, since 4 is even ( $4 \% 2 == 0$ ), the function returns  $4 + 1$ , which equals 5. Therefore, the printed result is 5.

**Question: 433**

What will be printed by the following code block?

```
def func(a, b):  
    a += b  
    return a  
x = 10  
y = 5  
print(func(x, y))  
print(x)
```

- A. 15, 10
- B. 15, 5
- C. 10, 5
- D. 15, 15

Answer: A

Explanation:

The function `func` adds `b` to `a` and returns the result. It does not modify the original `x`, so `x` remains 10.

**Question: 434**

What is the output of this code?

```
def square_numbers(lst):  
    return [x**2 for x in lst if x > 0]  
print(square_numbers([-1, 0, 1, 2, 3]))
```

- A. [1, 4, 9]
- B. [0, 1, 4, 9]
- C. [1, 2, 3]
- D. [2, 3]
- E. [-1, 0]

Answer: A

Explanation:

The `square_numbers` function squares only the positive numbers in the input list. For `[-1, 0, 1, 2, 3]`, the positive numbers are 1, 2, and 3, leading to the output `[1, 4, 9]`.

**Question: 435**

What does the following code output?

```
def check_value(x):  
    return "Positive" if x > 0 else "Negative" if x < 0 else "Zero"  
print(check_value(-10))  
print(check_value(0))  
print(check_value(10))
```

- A. Positive, Negative, Zero
- B. Negative, Zero, Positive
- C. Zero, Negative, Positive
- D. Negative, Positive, Zero

Answer: B

Explanation:

The function checks the value of x and returns "Negative", "Zero", or "Positive" depending on its condition. The outputs correspond correctly to the inputs.

### Question: 436

Which of the following statements best describes the purpose of the `__init__` method in a Python class?

- A. It is used to return a string representation of the object.
- B. It initializes the object's attributes when an instance is created.
- C. It is invoked when a class is inherited.
- D. It is used to delete an instance of the object.

Answer: B

Explanation:

The `__init__` method is a special method in Python classes that is automatically called when a new instance of the class is created. It allows you to set the initial state of the object by assigning values to its attributes.

### Question: 437

A financial institution is developing a Python program to calculate the compound interest on an investment. The program should account for user inputs and provide the final amount after the specified time. You need to complete the code to meet the requirements.

```
principal = XXX
```

```
rate = YYY
time = ZZZ
amount = principal * (1 + rate / 100) ** time
print('The final amount after {} years is: {:.2f}'.format(time, amount))
```

What should you insert instead of XXX, YYY, and ZZZ?

- A. XXX -> float(input('Enter the principal amount: ')) YYY -> float(input('Enter the interest rate: ')) ZZZ -> int(input('Enter the time in years: '))
- B. XXX -> input('Enter the principal amount: ') YYY -> float(input('Enter the interest rate: ')) ZZZ -> int(input('Enter the time in years: '))
- C. XXX -> float(input('Enter the principal amount: ')) YYY -> input('Enter the interest rate: ') ZZZ -> int(input('Enter the time in years: '))
- D. XXX -> float(input('Enter the principal amount: ')) YYY -> float(input('Enter the interest rate: ')) ZZZ -> input('Enter the time in years: '))

Answer: A

Explanation:

```
principal = float(input('Enter the principal amount: '))
rate = float(input('Enter the interest rate: '))
time = int(input('Enter the time in years: '))
amount = principal * (1 + rate / 100) ** time
print('The final amount after {} years is: {:.2f}'.format(time, amount))
```

The program captures user inputs for principal and rate as floats, and time as an integer. It calculates the compound interest and formats the output to two decimal places.

### Question: 438

Which of the following statements about default parameters in Python functions is true?

- A. Default parameters must be specified in every function call.
- B. You cannot use mutable types as default parameters.
- C. Default parameters are evaluated only once at function definition time.

Answer: C

Explanation:

Default parameters in Python are evaluated once when the function is defined, not each time the function is called.

### Question: 439

What will be the output of the following code snippet involving a class method and class variable?

```
class Counter:
    count = 0
    def increment(self):
        Counter.count += 1
counter1 = Counter()
counter1.increment()
counter2 = Counter()
counter2.increment()
print(Counter.count)
```

- A. 1
- B. 2
- C. 0
- D. Error

Answer: B

Explanation:

The class variable count is shared among all instances of the Counter class. Each time increment() is called, count increases by 1. After two calls, the count is 2.

### Question: 440

Examine the following code snippet and identify which statements regarding the use of \*args and \*\*kwargs in function definitions are true: (Select All That Apply)

```
def function_with_args(*args, **kwargs):
    print(args)
    print(kwargs)
```

```
function_with_args(1, 2, three='3', four='4')
```

- A. The output will be (1, 2) and {'three': '3', 'four': '4'}
- B. \*args allows for variable numbers of positional arguments
- C. \*\*kwargs allows for variable numbers of keyword arguments
- D. Both \*args and \*\*kwargs can be used in the same function

Answer: A, B, C, D

Explanation:

The \*args parameter collects extra positional arguments into a tuple, while \*\*kwargs collects additional keyword arguments into a dictionary. The output confirms that args contains (1, 2) and kwargs contains

{'three': '3', 'four': '4'}. Both can be used together in the same function definition.

### Question: 441

What will be the output of the following code snippet?

```
def func(x):  
    return x * 2  
  
print(func(func(3)))
```

- A. 6
- B. 3
- C. 12
- D. 9

Answer: C

Explanation:

The function `func` takes an argument `x` and returns `x * 2`.

When `func(3)` is called, it returns 6.

Then, `func(6)` is called, which returns 12.

Thus, the final output is 12.

### Question: 442

How do you define a function that can take an arbitrary number of positional arguments and keyword arguments?

- A. `def my_function(*args, kwargs):`
- B. `def my_function(args, kwargs):`
- C. `def my_function(*args, **kwargs):`

Answer: A

Explanation:

The syntax `*args` captures positional arguments as a tuple, while `**kwargs` captures keyword arguments as a dictionary.

### Question: 443

A healthcare application requires a Python program to calculate the Body Mass Index (BMI) from a user's weight and height. The program must handle exceptions for invalid input and provide a clear output. You need to complete the code to meet the requirements.

```
weight = XXX
height = YYY
try:
    bmi = weight / (height ** 2)
except ZeroDivisionError:
    print('Height cannot be zero.')
else:
    print('Your BMI is: {:.2f}'.format(bmi))
```

What should you insert instead of XXX and YYY?

- A. XXX -> float(input('Enter your weight in kg: ')) YYY -> float(input('Enter your height in meters: '))
- B. XXX -> input('Enter your weight in kg: ') YYY -> input('Enter your height in meters: ')
- C. XXX -> float(input('Enter your weight in kg: ')) YYY -> input('Enter your height in meters: ')
- D. XXX -> input('Enter your weight in kg: ') YYY -> float(input('Enter your height in meters: '))

Answer: A

Explanation:

```
weight = float(input('Enter your weight in kg: '))
height = float(input('Enter your height in meters: '))
try:
    bmi = weight / (height ** 2)
except ZeroDivisionError:
    print('Height cannot be zero.')
else:
    print('Your BMI is: {:.2f}'.format(bmi))
```

The program captures user input as a float for weight and height.

It handles division by zero, which can occur if height is zero, and formats the BMI output to two decimal places.

### Question: 444

Which of the following statements correctly illustrates the concept of variable scope in Python?

- A. Variables defined inside a function can be accessed from outside the function.
- B. Global variables can be modified inside a function using the global keyword.
- C. Local variables can be accessed from any part of the program.
- D. The scope of a variable is determined by the order of its declaration.

Answer: B

Explanation:

In Python, variables defined inside a function are local to that function and cannot be accessed from outside. To modify a global variable inside a function, you must declare it using the global keyword.

**Question: 445**

What will be printed by the following code snippet when executed?

```
def func(x):  
    if x >= 0:  
        return x  
    else:  
        return func(-x)  
  
print(func(-5))
```

- A. 5
- B. -5
- C. 0

Answer: A

Explanation:

The function func checks if x is non-negative.

When func(-5) is called, -5 is negative, so it calls func(5).  
Now, func(5) checks and finds that 5 is non-negative and returns 5.  
Thus, the output will be 5.

**Question: 446**

When using keyword arguments in a function, which of the following is a valid way to call the function?

- A. my\_function(x=1, 2)
- B. my\_function(2, x=1)
- C. my\_function(2, y=3)

Answer: B

Explanation:

Keyword arguments can be specified in any order. However, positional arguments must appear before keyword arguments.

**Question: 447**

What does the following code output?

```
def is_palindrome(s):  
    return s == s[::-1]  
print(is_palindrome("racecar"))
```

- A. True
- B. False
- C. racecar
- D. 1
- E. 0

Answer: A

Explanation:

The function `is_palindrome` checks if the string `s` is the same forwards and backwards. "racecar" is a palindrome, so the output is `True`.

**Question: 448**

Consider the following code snippet. What will be the output when this code is executed?

```
def merge_dicts(dict1, dict2):  
    return {**dict1, **dict2}  
  
dict_a = {'a': 1, 'b': 2}  
dict_b = {'b': 3, 'c': 4}  
print(merge_dicts(dict_a, dict_b))
```

- A. {'a': 1, 'b': 2, 'c': 4}
- B. {'a': 1, 'b': 3, 'c': 4}
- C. {'a': 1, 'b': 2}
- D. {'b': 3, 'c': 4}

Answer: B

Explanation:

The function `merge_dicts` combines two dictionaries. If there are overlapping keys, the values from the second dictionary (`dict2`) take precedence. Hence, the resulting dictionary is `{'a': 1, 'b': 3, 'c': 4}`.





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