20 - INTERMEDIATE QUESTIONS:

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Question:
How would you access the second element of a nested list my_list = [[1,2],[3,4]]?

A) my_list[1, 1]
B) my_list[1][1]
C) my_list[2][1]

Answer: **B**

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Question:
What does the list comprehension [x for x in range(10) if x % 2 == 0] produce?

A) List of all numbers from 0 to 10
B) List of odd numbers from 0 to 9
C) List of even numbers from 0 to 9

Answer: **C**

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Question:
What will the following code return: type(lambda x: x+1)?

A) <type 'function'>
B) <type 'lambda'>
C) <type 'int'>

Answer: **A**

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Question:
Which Python library is used for machine learning?

A) Flask
B) Django
C) scikit-learn

Answer: C

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Question:
How would you get all the keys from a dictionary my_dict?

A) my_dict.get_keys()
B) my_dict.keys()
C) keys(my_dict)

Answer: **B**

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Question:
Which of the following will raise an exception?

A) '12' + '34'
B) ['1', '2'] + ['3', '4']
C) '12' + 34

Answer: C

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Question:
What will the following code output: print('apple' > 'Apple')?

A) False
B) True
C) Error

Answer: B

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Question:
What is the purpose of the else clause in a Python for-loop?

A) It always executes after the loop finishes, regardless of how the loop exits.
B) It executes if the loop condition was never True.
C) It executes only if the loop finished without encountering a break statement.

Answer: C

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Question:
Which method is used to obtain the last five characters of a string s?

A) s.slice(-5)
B) s[5:]
C) s[-5:]

Answer: C

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Question:
What does the globals() function do?

A) Returns the global dictionary of the current module.
B) Makes all variables in the function global.
C) Checks if a variable is global or not.

Answer: A

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Question:
Which method would you use to transform a string to lowercase?

A) downcase()
B) to_lower()
C) lower()

Answer: C

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Question:
How do you delete a key-value pair from a dictionary d with a key k?

A) del d.k
B) d.remove(k)
C) del d[k]

Answer: C

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Question:
What is the output of the following: print(0.1 + 0.2 == 0.3)?

A) True
B) False
C) Error

Answer: B

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Question:
Which Python module is used for regular expressions?

A) re
B) regex
C) match

Answer: A

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Question:
Which of the following is not a valid file mode in Python?

A) 'r'
B) 'x'
C) 'm'

Answer: C

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Question:
Which function is used to get the ASCII value of a character?

A) ord()
B) chr()
C) ascii()

***Answer*: A**

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Question:
What is the default delimiter used in Python's split() method applied on a string?

A) whitespace
B) comma (,)
C) period (.)

***Answer*: A**

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***Question*:*
How do you handle exceptions in Python?

A) using handle/catch block
B) using try/catch block
C) using try/except block

***Answer*: C**

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Question:
Which function is used to evaluate a string as a Python expression and return the result?

A) eval()
B) calculate()
C) execute()

***Answer*: A**

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Question:
What is a generator in Python?

A) A type of function that returns a list.
B) A type of loop.
C) A type of function that yields values one by one using the yield keyword.

***Answer*: C**

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