

Python Code Syntropy

(<https://codesyntropy.com>)

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1. What is the output of the following code snippet?

```
x = 5
y = 2
print(x ** y)
```

- ☐ a) 7
 - ☐ b) 10
 - ☐ c) 25
 - ☐ d) 8
2. Which data type is mutable in Python?
- ☐ a) Tuple
 - ☐ b) List
 - ☐ c) String
 - ☐ d) Set
3. What is the correct way to comment multiple lines of code in Python?
- ☐ a) /Comment/
 - ☐ b) # Comment #
 - ☐ c) ''' Comment '''
 - ☐ d) // Comment //
4. Which method is used to add an element to the end of a list in Python?
- ☐ a) append()
 - ☐ b) insert()
 - ☐ c) add()
 - ☐ d) extend()

5. What is the output of the code below?

```
my_dict = {1: 'One', 2: 'Two', 3: 'Three'}  
print(my_dict.get(4, 'Not found'))
```

- ☐ a) Not found
- ☐ b) KeyError
- ☐ c) None
- ☐ d) Three

6. Which keyword is used for defining a function in Python?

- ☐ a) def
- ☐ b) define
- ☐ c) function
- ☐ d) define_function

7. What is the result of the expression 10 / 3 in Python?

- ☐ a) 3.33
- ☐ b) 3
- ☐ c) 3.0
- ☐ d) 3.3333

8. Which module is used to perform file I/O operations in Python?

- ☐ a) os
- ☐ b) sys
- ☐ c) io
- ☐ d) fileio

9. Which statement is used to exit from a loop in Python?

- ☐ a) stop
- ☐ b) exit
- ☐ c) break
- ☐ d) end

10. What is the result of the following expression?

```
bool(0) == False
```

- ☐ a) True
- ☐ b) False
- ☐ c) Error
- ☐ d) None

11. How can you convert a string to all lowercase letters in Python?

- ☐ a) toLowerCase()
- ☐ b) lower()

- ☐ c) caseLower()
 - ☐ d) to_lower()
12. Which method is used to remove whitespaces from both ends of a string in Python?
- ☐ a) trim()
 - ☐ b) strip()
 - ☐ c) remove()
 - ☐ d) delete()
13. What will be the output of the following code?
- ```
my_list = [1, 2, 3, 4, 5]
print(my_list[2:4])
```
- ☐ a) [1, 2, 3]
  - ☐ b) [2, 3, 4]
  - ☐ c) [3, 4]
  - ☐ d) [4, 5]
14. Which operator is used for exponentiation in Python?
- ☐ a) \*\*
  - ☐ b) ^
  - ☐ c) //
  - ☐ d) ^^
15. What does the 'pass' statement do in Python?
- ☐ a) Terminates the program
  - ☐ b) Skips the current iteration
  - ☐ c) Executes a function
  - ☐ d) Does nothing
16. Which method is used to remove an item by value from a list in Python?
- ☐ a) delete()
  - ☐ b) remove()
  - ☐ c) pop()
  - ☐ d) discard()
17. What does the 'enumerate()' function do in Python?
- ☐ a) Counts the number of elements in a list
  - ☐ b) Returns the sum of elements in a list
  - ☐ c) Generates an iterator with index and value
  - ☐ d) Sorts the elements in a list
18. Which of the following is not a valid variable name in Python?
- ☐ a) \_myVar

- ☐ b) 3var
- ☐ c) my\_Var
- ☐ d) var\_3

19. What will be the output of the following code?

```
x = [1, 2, 3]
y = x
y.append(4)
print(x)
```

- ☐ a) [1, 2, 3]
- ☐ b) [1, 2, 3, 4]
- ☐ c) [1, 2, 4]
- ☐ d) [1, 2, 3, 4]

20. Which built-in function is used to find the length of an iterable object in Python?

- ☐ a) len()
- ☐ b) size()
- ☐ c) length()
- ☐ d) count()

21. What is the correct way to check if a key exists in a dictionary in Python?

- ☐ a) key in dictionary
- ☐ b) dictionary.hasKey(key)
- ☐ c) dictionary.containsKey(key)
- ☐ d) dictionary.contains(key)

22. How can you create an empty set in Python?

- ☐ a) {}
- ☐ b) set()
- ☐ c) new Set()
- ☐ d) {}

23. Which keyword is used to exit from a loop prematurely in Python?

- ☐ a) end
- ☐ b) quit
- ☐ c) continue
- ☐ d) break

24. What is the output of the following code?

```
def my_function(a, b=2, c=3):
 print(a, b, - [] c)
```

```
my_function(1, c=4)
```

- ☐ a) 1 2 4
- ☐ b) 1 3 4
- ☐ c) 1 2 3
- ☐ d) 1 4 3

25. Which method is used to convert a string to a list in Python?

- ☐ a) toList()
- ☐ b) split()
- ☐ c) toList()
- ☐ d) parseList()

26. What does the 'continue' statement do in Python?

- ☐ a) Exits the loop completely
- ☐ b) Skips the rest of the code in the loop and moves to the next iteration
- ☐ c) Resumes execution from the beginning of the loop
- ☐ d) Jumps to the specified label

27. What is the result of the expression bool([]) in Python?

- ☐ a) True
- ☐ b) False
- ☐ c) 0
- ☐ d) 1

28. Which method is used to remove and return the last item from a list in Python?

- ☐ a) pop()
- ☐ b) remove()
- ☐ c) delete()
- ☐ d) extract()

29. What will be the output of the following code?

```
def add(a, b):
 return a + b
```

```
result = add(2, 3)
print(result * 2)
```

- ☐ a) 5
- ☐ b) 10
- ☐ c) 23
- ☐ d) 6

30. Which module in Python can be used to perform mathematical functions?

- ☐ a) math
- ☐ b) cmath

- ☐ c) maths
- ☐ d) calculus

31. What is the result of the following expression?

```
my_list = [1, 2, 3]
my_list += [4, 5]
print(my_list)
```

- ☐ a) [1, 2, 3, 4, 5]
- ☐ b) [1, 2, 3, [4, 5]]
- ☐ c) [1, 2, 3, 9]
- ☐ d) [1, 2, 3, [4, 5]]

32. What is the output of the following code?

```
x = "Python"
print(x[1:4])
```

- ☐ a) Pyt
- ☐ b) yth
- ☐ c) ytho
- ☐ d) yth

33. Which method is used to convert a string to uppercase in Python?

- ☐ a) toUpper()
- ☐ b) upper()
- ☐ c) toUpperCase()
- ☐ d) caseUpper()

34. What is the output of the following code?

```
def my_function(*args):
 print(args[2])
```

```
my_function(1, 2, 3, 4)
```

- ☐ a) 3
- ☐ b) TypeError
- ☐ c) 2
- ☐ d) 4

35. Which method is used to find the maximum value in a list in Python?

- ☐ a) max()
- ☐ b) maximum()
- ☐ c) largest()
- ☐ d) top()

36. What will be the output of the following code?

```
def my_function(a=1, b=2):
 print(a + - [] b)
```

```
my_function(b=4)
```

- ☐ a) 3
- ☐ b) 4
- ☐ c) 6
- ☐ d) 5

37. Which operator is used for floor division in Python?

- ☐ a) //
- ☐ b) \\\
- ☐ c) /%
- ☐ d) /floor

38. What is the output of the following code?

```
x = 5
y = 2
print(x / y)
```

- ☐ a) 2.5
- ☐ b) 2
- ☐ c) 2.0
- ☐ d) 2.2

39. What is the correct way to check the number of elements in a list in Python?

- ☐ a) list.size()
- ☐ b) len(list)
- ☐ c) list.length()
- ☐ d) size(list)

40. What does the 'not' operator do in Python?

- ☐ a) Returns the logical opposite of the operand
- ☐ b) Checks if a value exists
- ☐ c) Executes logical AND operation
- ☐ d) Executes logical OR operation

41. What is the output of the following code?

```
x = [1, 2, 3]
x.remove(2)
print(x)
```

- ☐ a) [1, 3]
- ☐ b) [1, 2, 3]
- ☐ c) [2, 3]

☐ d) [1, 2]

42. What is the output of the following code?

```
my_dict = {'a': 1, 'b': 2, 'c': 3}
del my_dict['c']
print(my_dict)
```

☐ a) {'a': 1, 'b': 2}

☐ b) {'a': 1, 'c': 3}

☐ c) {'b': 2, 'c': 3}

☐ d) {'a': 1}

43. Which method is used to convert a string to a tuple in Python?

☐ a) parseTuple()

☐ b) tuple()

☐ c) strToTuple()

☐ d) convertToTuple()

44. What will be the output of the following code?

```
def square(x):
 return x ** 2

numbers = [1, 2, 3, 4]
squared_numbers = list(map(square, numbers))
print(squared_numbers)
```

☐ a) [1, 4, 9, 16]

☐ b) [1, 2, 3, 4]

☐ c) [(1, 1), (2, 4), (3, 9), (4, 16)]

☐ d) [1, 8, 27, 64]

45. Which method is used to check if a string contains only numeric characters in Python?

☐ a) isnumeric()

☐ b) isdigit()

☐ c) isnumber()

☐ d) isnumericchar()

46. What is the output of the following code?

```
my_string = "Hello, World!"
print(len(my_string))
```

☐ a) 12

☐ b) 13

☐ c) 11

☐ d) 14



47. Which method is used to find the index of the first occurrence of an element in a list in Python?

- ☐ a) index()
- ☐ b) find()
- ☐ c) search()
- ☐ d) locate()

48. What does the 'split()' method do in Python?

- ☐ a) Combines two strings
- ☐ b) Removes leading and trailing whitespaces
- ☐ c) Splits a string into a list of substrings based on a delimiter
- ☐ d) Reverses the characters in a string

49. What is the result of the expression bool(0) in Python?

- ☐ a) True
- ☐ b) False
- ☐ c) 0
- ☐ d) 1

50. What is the output of the following code?

```
my_list = [1, 2, 3]
my_list.insert(1, 5)
print(my_list)
```

- ☐ a) [5, 1, 2, 3]
- ☐ b) [1, 5, 2, 3]
- ☐ c) [1, 5, 3]
- ☐ d) [1, 2, 5, 3]

51. How do you remove the last element from a list in Python?

- ☐ a) pop()
- ☐ b) remove()
- ☐ c) delete()
- ☐ d) popitem()