

## แบบฝึกหัด Python

### 1 Variable & Data Structure

จงพิจารณาคำสั่งต่อไปนี้ว่าสามารถใช้ได้หรือไม่ ถ้าได้จงเขียนผลลัพธ์ ถ้าไม่ได้จงให้เหตุผล

1. numeric1 = 100                    type = int, 100
2. numeric2 = -25                    type = int, -25
3. numeric3 = -3.14                    type = float, -3.14
4. numeric4 = 2.718                    type = float, 2.718
5. numeric5 = True                    type = bool, true
6. numeric6 = False                    type = bool, false
7. numeric7 = 4 + 5j                    type = complex, (4+5j)
8. numeric8 = 1 + 2j                    type = complex, (1+2j)
9. numeric8.real                    type = float, 1.0
10. numeric8.image                    Attribute Error: ไม่มี 'image' ใน 'complex'
11. numeric8.imag                    type = float, 2.0
12. string1 = 'Python'                    type = str, 'Python'
13. 2string = 'Hello'                    Syntax Error: ผิดกฎการตั้งชื่อ
14. string1[0]                    type = str, 'P'
15. string1[1]                    type = str, 'y'
16. string1[6]                    Index Error: มีแค่ string index 0 - 5
17. string1[7]                    Index Error: มีแค่ string index 0 - 5
18. string1[-1]                    type = str, 'n'
19. string1[-7]                    Index Error: มีแค่ string index (-1) - (-6)
20. string1[:4]                    type = str, 'Pyth'
21. string1[-2]                    type = str, 'Pyth'
22. string1[3:]                    type = str, 'hon'
23. string1[-3:]                    type = str, 'hon'
24. string1[-1:]                    type = str, 'n'
25. string1[2:5]                    type = str, 'tho'
26. string1[1:6]                    type = str, 'thon'
27. string1[3:7]                    type = str, 'hon'
28. string1[-5:-2]                    type = str, 'yth'
29. string1[1:-2]                    type = str, 'yth'
30. string1[-3:5]                    type = str, 'ho'
31. string1[-2:2]                    type = str, ''
32. string1[0] = 'G'                    Type Error: 'str' ไม่สนับสนุนการกำหนดรายการ
33. del string1[2]                    Type Error: 'str' ไม่สนับสนุนการลบรายการ
34. len(string)                    Name Error: ไม่เจอชื่อ 'string'
35. 'P' in string1                    type = bool, true
36. 'p' in string1                    type = bool, false
37. 'j' in string1                    type = bool, false
38. list1 = [1, 2, 3, 'a', 'b', 'c']                    type = list, [1, 2, 3, 'a', 'b', 'c']
39. list1[0]                    type = int, 1
40. list1[1]                    type = int, 2
41. list1[6]                    Index Error: list index มีแค่ 0 - 5
42. list1[7]                    Index Error: list index มีแค่ 0 - 5
43. list1[-1]                    type = str, 'c'
44. list1[-2]                    type = str, 'b'
45. list1[-7]                    Index Error: list index มีแค่ (-1) - (-6)
46. list1[:4]                    type = list, [1, 2, 3, 'a']
47. list1[:2]                    type = list, [1, 2, 3, 'a', 'b']
48. list1[3:]                    type = list, ['a', 'b', 'c']
49. list1[-3:]                    type = list, ['a', 'b', 'c']
50. list1[-1:]                    type = list, ['c']
51. list1[2:5]                    type = list, [3, 'a', 'b']
52. list1[1:6]                    type = list, [2, 3, 'a', 'b', 'c']
53. list1[3:7]                    type = list, ['a', 'b', 'c']
54. list1[-5:2]                    type = list, [2]
55. list1[1:-2]                    type = list, [2, 3, 'a', 'b']
56. list1[-3:5]                    type = list, ['a', 'b']
57. list1[-2:2]                    type = list, []
58. list1[0] = 'd'                    type = list, ['d', 2, 3, 'a', 'b', 'c']
59. list1[-2] = ['n', 'x', 'c']                    type = list, ['d', 2, 3, 'a', ['n', 'x', 'c'], 'c']
60. list1.append(4)                    type = list, ['d', 2, 3, 'a', ['n', 'x', 'c'], 'c', 4]
61. list2 = [5, 6, 7]                    type = list, [5, 6, 7]
62. list1.append(list2)                    type = list, ['d', 2, 3, 'a', ['n', 'x', 'c'], 'c', 4, [5, 6, 7]]
63. list1.insert(2, 'e')                    type = list, ['d', 2, 'e', 3, 'a', ['n', 'x', 'c'], 'c', 4, [5, 6, 7]]
64. list3 = [8, 9]                    type = list, [8, 9]
65. list4 = [10, 11, 12]                    type = list, [10, 11, 12]
66. list1.add(5)                    Attribute Error: ไม่มี 'add' ใน 'list'

67. list1.update(7)                      Attribute Error: ไม่มี 'update' ใน 'list'

68. del list1[2]            type = list, ['d', 2, 3, 'a', ['n', 'x', 'ค'], 'c', 4, [5, 6, 7]]

69. del list1[-3]           type = list, ['d', 2, 3, 'a', ['n', 'x', 'ค'], 4, [5, 6, 7]]

70. list1.remove('d')            type = list, [2, 3, 'a', ['n', 'x', 'ค'], 4, [5, 6, 7]]

71. list1.remove(['n', 'x', 'ค'])            type = list, [2, 3, 'a', 4, [5, 6, 7]]

72. list1.clear()           type = list, []

73. list1.append(1)            type = list, [1]  
list1.append(2)            type = list, [1, 2]  
list1.append(3)            type = list, [1, 2, 3]  
len(list1)                  type = int, 3

74. 1 in list1            type = bool, True

75. 'a' in list1           type = bool, False

76. tuple1 = (1, 2, 3, 'a', 'b', 'c')            type = tuple, (1, 2, 3, 'a', 'b', 'c')

77. tuple1[0]            type = int, 1

78. tuple1[1]            type = int, 2

79. tuple1[6]            Index Error: tuple index มีแค่ 0 - 5

80. tuple1[7]            Index Error: tuple index มีแค่ 0 - 5

81. tuple1[-1]           type = str, 'c'

82. tuple1[-2]           type = str, 'b'

83. tuple1[-7]           Index Error: tuple index มีแค่ (-1) - (-6)

84. tuple1[:4]           type = tuple, (1, 2, 3, 'a')

85. tuple1[:-2]           type = tuple, (1, 2, 3, 'a')

86. tuple1[3:]           type = tuple, ('a', 'b', 'c')

87. tuple1[-3:]           type = tuple, ('a', 'b', 'c')

88. tuple1[-1:]           type = tuple, ('c')

89. tuple1[2:5]           type = tuple, (3, 'a', 'b')

90. tuple1[1:6]           type = tuple, (2, 'a', 'b', 'c')

91. tuple1[3:7]           type = tuple, ('a', 'b', 'c')

92. tuple1[-5:-2]           type = tuple, (2, 3, 'a')

93. tuple1[1:-2]           type = tuple, (2, 3, 'a')

94. tuple1[-3:5]           type = tuple, ('a', 'b')

95. tuple1[-2:2]           type = tuple, ()

96. tuple1[0] = 'd'            Type Error: 'tuple' ไม่สนับสนุนการกำหนดรายการ

97. tuple1[-2] = ['ก', 'ข', 'ค']            Type Error: 'tuple' ไม่สนับสนุนการกำหนดรายการ

98. tuple1[0] = 'd'            Type Error: 'tuple' ไม่สนับสนุนการกำหนดรายการ

99. tuple1[-2] = ['ก', 'ข', 'ค']            Type Error: 'tuple' ไม่สนับสนุนการกำหนดรายการ

100. tuple1.append('d')            Attribute Error: ไม่มี 'append' ใน 'tuple'

101. del tuple1[0]            Type Error: 'tuple' ไม่สนับสนุนการลบรายการ

102. tuple1.remove(1)            Attribute Error: ไม่มี 'remove' ใน 'tuple'

103. tuple1.clear()            Attribute Error: 'clear' ไม่มีใน 'tuple'

104. len(tuple1)            type = int, 6

105. 1 in tuple1            type = bool, True

106. 'f' in tuple1           type = bool, False

107. dict1 = {'firstname': 'Krin', 'lastname': 'Chinprasatsak', 'favorite\_food': ['Salmon', 'Bingsu']}  
type = dict, {'firstname': 'Krin', 'lastname': 'Chinprasatsak', 'favorite\_food': ['Salmon', 'Bingsu']}

108. dict1['firstname']            type = str, 'Krin'

109. dict1['lastname']            type = str, 'Chinprasatsak'

110. dict1[0]            Key Error: 0

111. dict1.append(1)            Attribute Error: ไม่มี 'append' ใน 'dict'

112. dict1['handsome\_level'] = 10            type = dict, {'firstname': 'Krin', 'lastname': 'Chinprasatsak', 'favorite\_food': ['Salmon', 'Bingsu']} type = dict, {'firstname': 'Krin', 'lastname': 'Chinprasatsak', 'favorite\_food': ['Salmon', 'Bingsu'], 'handsome\_level': 10}

113. dict1.add({'beautiful\_level': 10})            Attribute Error: ไม่มี 'add' ใน 'dict'

114. dict1.update({'pet\_name': 'Happy', 'favorite\_subject': ['Math', 'English']})  
type = dict, {'firstname': 'Krin', 'lastname': 'Chinprasatsak', 'favorite\_food': ['Salmon', 'Bingsu'], 'handsome\_level': 10, 'pet\_name': 'Happy', 'favorite\_subject': ['Math', 'English']}

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115. dict1.remove('Krin')    Attribute Error: ไม่มี 'remove' ใน 'dict'
116. dict1.clear()    type = dict, {}
117. dict1['name'] = 'Krin'    type = dict, 'Krin'
    len(dict1)    type = int, 1
118. 'name' in dict1    type = bool, True
119. 'lastname' in dict1    type = bool, False
120. set1 = {1, 2, 3, 'a', 'b', 'c'}    type = set, {1, 2, 3, 'a', 'b', 'c'}
121. set1[0]    Type Error: 'set' object is not subscriptable
122. for s in set1:
    print(s)    result: 1, 2, 3, 'a', 'b', 'c'
123. set1[1] = 7    Type Error: 'set' ไม่สนับสนุนการกำหนดรายการ
124. set1.append('d')    Attribute Error: ไม่มี 'append' ใน 'set'
125. set1.add('d')    type = set, {1, 2, 3, 'a', 'b', 'c', 'd'}
126. set1.update({4, 'e'})    type = set, {1, 2, 3, 4, 'a', 'b', 'c', 'd', 'e'}
127. del set1[0]    Type Error: 'set' ไม่สนับสนุนการลบรายการ
128. set1.remove(1)    type set, {2, 3, 4, 'a', 'b', 'c', 'd', 'e'}
129. set1.remove('e')    type set, {2, 3, 4, 'a', 'b', 'c', 'd'}
130. set1.clear()    type = set, {}
131. set1 = {1, 2, 3}    type = set, {1, 2, 3}
    len(set1)    type = int, 3
132. 1 in set1    type = bool, True
133. 'a' in set1    type = bool, False
กำหนดให้ set1 = {1, 2, 3, 4, 5}
    set2 = {3, 4, 5, 6}
134. set1 | set2    type set, {1, 2, 3, 4, 5, 6}
135. set1 & set2    type set, {3, 4, 5}
136. set1 - set2    type set, {1, 2}
137. set1 ^ set2    type set, {1, 2, 6}

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