Dictionaries

1. Consider the following dictionary:  
   color\_code = {'red': '#FF0000',  
    'green': '#00FF00',

'blue': '#0000FF'}

What will be printed for the following expressions? If an expression generates an error write “error”.

|  |  |
| --- | --- |
| **Expression** | **Value** |
| color\_code['red'] |  |
| color\_code['black'] |  |
| color\_code['#00FF00'] |  |
| color\_code[2] |  |

1. Consider the following dictionary:

person = {}

person['name'] = 'Adalbert Gerald Soosai Raj'

person['age'] = 30

person['isAlive'] = True

person['phone'] = [  
 {'type': 'office', 'number': '608-123-4567'},   
 {'type': 'home', 'number': '608-987-6543'}  
]

person['address'] = {'street': '1210 West Dayton Street', 'city': 'Madison', 'state': 'WI', 'zip': 53706}

What is the **type** (int, float, bool, str, list, dict) of the following expressions?

|  |  |  |  |
| --- | --- | --- | --- |
| **Expression** | **Type** | **Expression** | **Type** |
| person |  | person['isAlive'] |  |
| person['name'] |  | person['phone'] |  |
| person['age'] |  | person['address'] |  |

1. For this code, what is printed if we replace **????** with the corresponding expression?

airbnb = [

{"name": "A", "rm\_id": 837, "date": "10/20/2021",

"reviews": [""]},

{"name": "B", "rm\_id": 389, "date": "01/04/2022",

"reviews": ["\*", "", "\*\*"]},

{"name": "C", "rm\_id": 108, "date": "05/10/2021",

"reviews": ["\*\*\*", "\*\*"]},

{"name": "D", "rm\_id": 237, "date": "12/25/2021",

"reviews": ["\*"]},

{"name": "E", "rm\_id": 278,

"reviews": ["\*\*\*", "\*\*", "\*\*\*"]}

]

print(**????**)

|  |  |  |  |
| --- | --- | --- | --- |
| **????** | **result** | **????** | **result** |
| airbnb[1] |  | len(airbnb[2]["reviews"]) |  |
| airbnb[-1][ "name"] |  | airbnb[4]["reviews"][-1][0] + "s" |  |
| airbnb["name"] |  | airbnb[-6]["reviews"] |  |
| airbnb[1]["date"][2] |  | airbnb[2]["reviews"].index(airbnb[1]["reviews"][2]) |  |
| airbnb[2]["date"][6:] |  | airbnb[1]["reviews"][:1] + airbnb[2]["reviews"][1:] |  |

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

result = []

for x in airbnb[1]:

result.append(x)

result

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

word = "Happiness"

d = dict()

for letter in word:

if letter in d:

d[letter] += 1

else:

d[letter] = 1

print(d)

1. Consider the following dictionary:

d = {}

d[0] = 'zero'

d[1] = 'one'

d[2] = 'two'

What will be printed for the following expressions? If an expression generates an error, write “error”.

|  |  |
| --- | --- |
| **Expression** | **Value** |
| 1 in d |  |
| '2' in d |  |
| 2 not in d |  |
| 'zero' in d |  |