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 |  |