JSON Exercises

1. **Exercise 1: Convert the following dictionary into JSON format**

data = {"key1" : "value1", "key2" : "value2"}

**Expected Output**:

data = {"key1" : "value1", "key2" : "value2"}

1. **Exercise 2: Access the value of key2 from the following JSON**

import json

sampleJson = """{"key1": "value1", "key2": "value2"}"""

*# write code to print the value of key2*

**Expected Output**:

value2

1. **Exercise 3: PrettyPrint following JSON data**

PrettyPrint following JSON data with indent level 2 and key value separators should be (",", " = ").

sampleJson = {"key1": "value1", "key2": "value2"}

**Expected Output**:

{

"key1" = "value2",

"key2" = "value2",

"key3" = "value3"

}

1. **Exercise 4: Sort JSON keys in and write them into a file**

Sort following JSON data alphabetical order of keys

sampleJson = {"id" : 1, "name" : "value2", "age" : 29}

**Expected Output**:

{

"age": 29,

"id": 1,

"name": "value2"

}

1. **Exercise 5: Access the nested key ‘salary’ from the following JSON**

import json

sampleJson = """{

"company":{

"employee":{

"name":"emma",

"payble":{

"salary":7000,

"bonus":800

}

}

}

}"""

*# write code to print the value of salary*

**Expected Output**:

7000

1. **Exercise 6: Convert the following Vehicle Object into JSON**

import json

class Vehicle:

def \_\_init\_\_(self, name, engine, price):

self.name = name

self.engine = engine

self.price = price

vehicle = Vehicle("Toyota Rav4", "2.5L", 32000)

# Convert it into JSON format

**Expected Output**:

{

"name": "Toyota Rav4",

"engine": "2.5L",

"price": 32000

}

1. **Exercise 7: Convert the following JSON into Vehicle Object**

{ "name": "Toyota Rav4", "engine": "2.5L", "price": 32000 }

For example, we should be able to access Vehicle Object using the dot operator like this.

vehicleObj.name, vehicleObj.engine, vehicleObj.price

1. **Exercise 8: Check whether following json is valid or invalid. If Invalid correct it**

{

"company":{

"employee":{

"name":"emma",

"payble":{

"salary":7000

"bonus":800

}

}

}

}

**Exercise 9: Parse the following JSON to get all the values of a key ‘name’ within an array**

[

{

"id":1,

"name":"name1",

"color":[

"red",

"green"

]

},

{

"id":2,

"name":"name2",

"color":[

"pink",

"yellow"

]

}

]

**Expected Output**:

["name1", "name2"]