**ASSESSMENT2**

EXAMPLE5 CODE:

[

{

"id": "0001",

"type": "donut",

"name": "Cake",

"ppu": 0.55,

"batters":

{

"batter":

[

{ "id": "1001", "type": "Regular" },

{ "id": "1002", "type": "Chocolate" },

{ "id": "1003", "type": "Blueberry" },

{ "id": "1004", "type": "Devil's Food" }

]

},

"topping":

[

{ "id": "5001", "type": "None" },

{ "id": "5002", "type": "Glazed" },

{ "id": "5005", "type": "Sugar" },

{ "id": "5007", "type": "Powdered Sugar" },

{ "id": "5006", "type": "Chocolate with Sprinkles" },

{ "id": "5003", "type": "Chocolate" },

{ "id": "5004", "type": "Maple" }

]

},

{

"id": "0002",

"type": "donut",

"name": "Raised",

"ppu": 0.55,

"batters":

{

"batter":

[

{ "id": "1001", "type": "Regular" }

]

},

"topping":

[

{ "id": "5001", "type": "None" },

{ "id": "5002", "type": "Glazed" },

{ "id": "5005", "type": "Sugar" },

{ "id": "5003", "type": "Chocolate" },

{ "id": "5004", "type": "Maple" }

]

},

{

"id": "0003",

"type": "donut",

"name": "Old Fashioned",

"ppu": 0.55,

"batters":

{

"batter":

[

{ "id": "1001", "type": "Regular" },

{ "id": "1002", "type": "Chocolate" }

]

},

"topping":

[

{ "id": "5001", "type": "None" },

{ "id": "5002", "type": "Glazed" },

{ "id": "5003", "type": "Chocolate" },

{ "id": "5004", "type": "Maple" }

]

}

]

**PYTHON SCRIPT:**

import json

# JSON data from Example 5

data = """

{

"id": "0003",

"type": "donut",

"name": "Old Fashioned",

"ppu": 0.55,

"batters":

{

"batter":

[

{ "id": "1001", "type": "Regular" },

{ "id": "1002", "type": "Chocolate" }

]

},

"topping":

[

{ "id": "5001", "type": "None" },

{ "id": "5002", "type": "Glazed" },

{ "id": "5003", "type": "Chocolate" },

{ "id": "5004", "type": "Maple" }

]

}

}

"""

# Write the JSON data to a file

with open('ex5.json', 'w') as file:

file.write(data)

# Read the JSON data from the file

with open('ex5.json', 'r') as file:

ex5 = json.load(file)

# Find the donut with the name "Old Fashioned" (since it doesn't exist in the given data, we assume the 'Cake')

# Add a new batter named "Tea"

ex5['batters']['batter'].append({"id": "1005", "type": "Tea"})

# Write the updated dictionary back to the JSON file

with open('ex5.json', 'w') as file:

json.dump(ex5, file, indent=4)

print("JSON file updated successfully.")

**OUTPUT:**

