

## Exercise 1: Convert the following dictionary into JSON format

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

**Expected Output:**

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

.

## 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
```

.

## Question 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"  
  
}
```

.

## 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"  
  
}
```

.

## Question 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
```

.

## 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
}
```

## 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
```

## Question 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"]
```

