

## TASK - 1

```
# Task 1: Define restaurant information
```

```
restaurant_info = {
    "name": "Tasty Bites",
    "total_tables": 10,
    "seats_per_table": 4,
    "time_slots": ["18:00", "18:30", "19:00", "19:30", "20:00", "20:30", "21:00", "21:30"],
    "max_party_size": 6,
    "reservation_cutoff_minutes": 60
}
```

```
# Show the collected information
for key, value in restaurant_info.items():
    print(f"{key}: {value}")
```

```
↗ name: Tasty Bites
total_tables: 10
seats_per_table: 4
time_slots: ['18:00', '18:30', '19:00', '19:30', '20:00', '20:30', '21:00', '21:30']
max_party_size: 6
reservation_cutoff_minutes: 60
```

## TASK - 2

```
import json
```

```
# Data to store in JSON file (a reservation example)
```

```
reservation_data = [
    {
        "customer_name": "Alice",
        "party_size": 3,
        "reservation_time": "19:00",
        "table_number": 2,
        "contact": "alice@example.com"
    }
]
```

```
# Create and write data to reservations.json file
```

```
with open('reservations.json', 'w') as file:
    json.dump(reservation_data, file, indent=4)
```

```
# Confirm that the file was created
```

```
print("JSON file 'reservations.json' created!")
```

```
↗ JSON file 'reservations.json' created!
```

```
# Read the contents of the JSON file
```

```
with open('reservations.json', 'r') as file:
    data = json.load(file)
    print(json.dumps(data, indent=4))
```

```
↗ [
  {
    "customer_name": "Alice",
    "party_size": 3,
    "reservation_time": "19:00",
    "table_number": 2,
    "contact": "alice@example.com"
  }
]
```

```
[
  {
    "customer_name": "Alice",
    "party_size": 3,
    "reservation_time": "19:00",
    "table_number": 2,
    "contact": "alice@example.com"
  }
]
```

```
↗ [{'customer_name': 'Alice',
    'party_size': 3,
```

```
'reservation_time': '19:00',
'table_number': 2,
'contact': 'alice@example.com'}}]

new_reservation = {
    "customer_name": "Bob",
    "party_size": 4,
    "reservation_time": "20:00",
    "table_number": 5,
    "contact": "bob@example.com"
}

# Load existing reservations from the JSON file
with open('reservations.json', 'r') as file:
    data = json.load(file)

# Add the new reservation to the list
data.append(new_reservation)

# Save the updated list back to the JSON file
with open('reservations.json', 'w') as file:
    json.dump(data, file, indent=4)

# Confirm the addition
print("New reservation added!")
```

 New reservation added!

Start coding or [generate](#) with AI.