In [1]:
```python
# create an array of Employee with salary and display the employees whose salary is less than
class Employee:
    def __init__(self, name, salary):
        self.name = name
        self.salary = salary

employees = [
    Employee("Alice", 45000),
    Employee("Bob", 60000),
    Employee("Charlie", 48000),
    Employee("David", 35000),
    Employee("Eve", 55000)
]
print("Employees with salary less than 50,000:")
for employee in employees:
    if employee.salary < 50000:
        print(f"Name: {employee.name}, Salary: {employee.salary}")
```

```
Employees with salary less than 50,000:
Name: Alice, Salary: 45000
Name: Charlie, Salary: 48000
Name: David, Salary: 35000
```

In [3]:
```python
#  2. Suppose you have a dataset containing daily temperature readings for a city, and you wa
# where the temperature either exceeded 35 degrees Celsius (hot day) or dropped below 5 degre

# Input:

# temperatures = np.array([32.5, 34.2, 36.8, 29.3, 31.0, 38.7, 23.1, 18.5, 22.8, 37.2,4,25,12,
import numpy as np

temperatures = np.array([32.5, 34.2, 36.8, 29.3, 31.0, 38.7, 23.1, 18.5, 22.8, 37.2, 4, 25, 1

hot_days = temperatures > 35
cold_days = temperatures < 5

print("Hot days (temperature > 35°C):", temperatures[hot_days])
print("Cold days (temperature < 5°C):", temperatures[cold_days])
```

```
Hot days (temperature > 35°C): [36.8 38.7 37.2]
Cold days (temperature < 5°C): [  4.  -4. -12.]
```

In [4]:
```python
# 3. Suppose you have a dataset containing monthly sales data for a company, and you want to s

# Input: monthly_sales = np.array([120, 135, 148, 165, 180, 155, 168, 190, 205, 198, 210, 225,
import numpy as np

monthly_sales = np.array([120, 135, 148, 165, 180, 155, 168, 190, 205, 198, 210, 225])

quarterly_sales = monthly_sales.reshape(4, 3)

print("Quarterly Sales Data:")
for i, quarter in enumerate(quarterly_sales, start=1):
    print(f"Quarter {i}: {quarter}")
```

```
Quarterly Sales Data:
Quarter 1: [120 135 148]
Quarter 2: [165 180 155]
Quarter 3: [168 190 205]
Quarter 4: [198 210 225]
```

In [ ]: