In [1]:
```
import numpy as np
Enames = np.array(["John", "Alice", "Bob", "David", "Emma"])
salaries = np.array([45000, 60000, 48000, 75000, 47000])
low_salary_indices = np.where(salaries < 50000)
low_salary_employees = Enames[low_salary_indices]
low_salary_amounts = salaries[low_salary_indices]

print("Employees with salary less than 50000:")
for name, salary in zip(low_salary_employees, low_salary_amounts):
    print(f"{name}: {salary}")
```

```
Employees with salary less than 50000:
John: 45000
Bob: 48000
Emma: 47000
```

In [2]:
```
import numpy as np
temp = np.array([32.5, 34.2, 36.8, 29.3, 31.0, 38.7, 23.1, 18.5, 22.8, 37.2, 4, 25,
hot = temp[temp > 35]
cold = temp[temp < 5]

print("Hot Days (Temperature > 35°C):", hot)
print("Cold Days (Temperature < 5°C):", cold)
```

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

In [3]:
```
import numpy as np
monthlySales = np.array([120, 135, 148, 165, 180, 155, 168, 190, 205, 198, 210, 225
parts = np.split(monthlySales, 4)

print("Quarterly Sales:")
for i, quarter in enumerate(parts, 1):
    print(f"Q{i}: {parts}")
```

```
Quarterly Sales:
Q1: [array([120, 135, 148]), array([165, 180, 155]), array([168, 190, 205]), array
([198, 210, 225])]
Q2: [array([120, 135, 148]), array([165, 180, 155]), array([168, 190, 205]), array
([198, 210, 225])]
Q3: [array([120, 135, 148]), array([165, 180, 155]), array([168, 190, 205]), array
([198, 210, 225])]
Q4: [array([120, 135, 148]), array([165, 180, 155]), array([168, 190, 205]), array
([198, 210, 225])]
```

In [ ]: