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Questions

Question 1.

What is the difference between a Python list and a NumPy array? How can a NumPy array be reshaped, and why is reshaping useful?

Question 2.

You are given a DataFrame named students created using the pandas library.

a. How would you select only the name and grade columns?

b. Select only the students who got grade more than 80.

```
students = pd.DataFrame({
    "student_id": [1, 2, 3],
    "name": ["Alice", "Bob", "Charlie"],
    "grade": [85.5, 90.0, 72.3]
})
```

Question 3.

Find the mean, median and mode value of the following array using the **NumPy** library

```
arr = np.array([1, 2, 3, 4, 5])
```