

### Aim:

Write a NumPy program to calculate the difference between the maximum and the minimum values of a given array along the second axis

### Explanation

In this program, we define a sample array `arr` with three rows and three columns. Use the `np.max()` function with `axis=1` to calculate the maximum value along the second axis (rows) and the `np.min()` function with `axis=1` to calculate the minimum value along the second axis. Finally, we subtract the minimum values from the maximum values to get the difference and store it in the variable `diff`. The resulting array `diff` contains the differences between the maximum and minimum values along the second axis.

### Source Code:

MaxMinDiff.py

```
import numpy as np

# Sample array
arr = np.array([[4, 5, 2],
                [9, 3, 7],
                [1, 6, 8]])

# Write code below to achieve the goal of this question
arr = np.array([[4, 5, 2], [9, 3, 7], [1, 6, 8]])
r = np.ptp(arr, axis=1)
print(r)
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
[3 6 7]