

The screenshot shows a Python IDE with the following components:

- EXPLORER:** A file explorer on the left showing a project named "進階python程式設計". It contains several files, including "B10802050課堂練習11-1.py" through "B10802050課堂練習17-6.py".
- Code Editor:** The main window displays the code for "B10802050課堂練習17-6.py". The code imports NumPy and generates a random array A of size 5000. It then prints the mean and standard deviation of A, followed by a series of conditional sums for various ranges of values in A.
- TERMINAL:** The terminal window at the bottom right shows the output of the script. It displays the mean and standard deviation of A, followed by a series of conditional sums for various ranges of values in A.

```
1 import numpy as np
2
3 A = np.random.randn(5000)
4
5 print(np.mean(A))
6 print(np.std(A))
7 print(f'[-3, -2.4)\t: {((A >= -3) & (A < -2.4)).sum()}')
8 print(f'[-2.4, -1.8)\t: {((A >= -2.4) & (A < -1.8)).sum()}')
9 print(f'[-1.8, -1.2)\t: {((A >= -1.8) & (A < -1.2)).sum()}')
10 print(f'[-1.2, -0.6)\t: {((A >= -1.2) & (A < -0.6)).sum()}')
11 print(f'[-0.6, 0)\t: {((A >= -0.6) & (A < 0)).sum()}')
12 print(f'[0, 0.6)\t: {((A >= 0) & (A < 0.6)).sum()}')
13 print(f'[-0.6, 1.2)\t: {((A >= 0.6) & (A < 1.2)).sum()}')
14 print(f'[1.2, 1.8)\t: {((A >= 1.2) & (A < 1.8)).sum()}')
15 print(f'[1.8, 2.4)\t: {((A >= 1.8) & (A < 2.4)).sum()}')
16 print(f'[2.4, 3)\t: {((A >= 2.4) & (A < 3)).sum()}')
```

Output:

```
0.006798392515491375
0.9993113901793556
[-3, -2.4) : 30
[-2.4, -1.8) : 140
[-1.8, -1.2) : 401
[-1.2, -0.6) : 793
[-0.6, 0) : 1098
[0, 0.6) : 1142
[-0.6, 1.2) : 803
[1.2, 1.8) : 415
[1.8, 2.4) : 126
[2.4, 3) : 35
```