**PSEUDOCODES FOR PART III**

1. Start
2. Import modules numpy as np
3. Import function mode from modules statistics
4. Import modules matplotlib.plyplot as plt
5. Define and initialize array variable for self-reported total calories intake as calories
6. Find the maximum value of the array (calories)
7. Display the maximum value
8. Find the minimum value of the array (calories)
9. Display the minimum value
10. Find the mode value of the array (calories) using statistics module
11. Display the mode value using statistics module
12. Find the frequency of the mode value of the array (calories) using statistics module
13. Display the frequency of the mode value using statistics module
14. Calculate the mean value of the array (calories) using numpy module
15. Display the mean value using numpy module
16. Calculate the variance value of the array (calories) using numpy module
17. Display the variance value using numpy module
18. Calculate the standard deviation value of the array (calories) using numpy module
19. Display the standard deviation value using numpy module
20. Set up boxplot based on the array (calories) using matplotlib.plyplot module
21. Display the boxplot using matplotlib.plyplot module
22. Set up histogram based on the array (calories) using matplotlib.plyplot module
23. Display the histogram using matplotlib.plyplot module
24. End

**FLOWCHART FOR PART III**

Import required modules (numpy, statistics, matplotlib.plyplot)

Define and initialize array variable for self-reported total calories intake (calories)

Find and display the maximum value of the array (calories)

Find and display the minimum value of the array (calories)

Find and display the mode value of the array (calories) using statistics module

Find and display the frequency of the mode value of the array (calories)

using statistics module

Calculate and display the mean value of the array (calories) using numpy module

Calculate and display the variance value of the array (calories) using numpy module

Calculate and display the standard deviation value of the array (calories)

using numpy module

Set up and display boxplot based on the array (calories) using matplotlib.plyplot module

Set up and display histogram based on the array (calories)

using matplotlib.plyplot module