

Foundations of Coding Lab 4 – Statistics Calculator

In this lab you will implement a statistics calculator that is capable of four operations:

- Get Minimum
- Get Maximum
- Get Median
- Get Mean

You will do this by writing and implementing four functions, the functions above plus additional helper functions that aid in helping the program run:

- Get List
- Print Menu
- Empty List

In this lab, you will be provided with a template file with all of the function prototypes required to complete the lab. **You are expected to write a lab report detailing your thought process for each function.**

Below is the expected output of each function:

Get List

```
P5 C:\Users\eSports\Documents\275> & C:/Users/eSports/AppData/Local/Programs/Python/Python312/python.exe c:/Users/eSports/Documents/275/lab4.py
Welcome to the List Statistics Calculator
Enter a list of integers or 'q' to end the list!
Enter an integer: 1
Enter an integer: 2
Enter an integer: 3
Enter an integer: 4
Enter an integer: 5
Enter an integer: q
Please choose the statistic you would like to calculate!
```

Print List

```
Please choose the statistic you would like to calculate!
1. Min
2. Max
3. Mean
4. Median
5. Clear List
```

Get Min

```
Please enter your choice, or 0 to exit: 1
The minimum value is: 1
```

Get Max

```
Please enter your choice, or 0 to exit: 2
The maximum value is: 5
```

Get Mean

```
Please enter your choice, or 0 to exit: 3  
The mean value is : 3.0
```

Get Median

```
Please enter your choice, or 0 to exit: 4  
The median value is : 3
```

Empty List

```
Please enter your choice, or 0 to exit: 5  
Enter a list of integers or 'q' to end the list!  
Enter an integer: █
```