

IDLE Shell 3.13.2

File Edit Shell Debug Options Window Help

Type "help", "copyright", "credits" or "license()" for more information
>>>

==== RESTART: C:/Red and white Rwn 3/project 4 .project Function Tre
Welcome to the Data Analyzer and Transformer Program

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Main Menu

- 1.Input Data
- 2.Display Data Summary (Built-in Functions)
- 3.Calculate Factorial (Recursion)
- 4.Filter Data by Threshold (Lambda Function)
5. Sort Data
- 6.Display Dataset Statistics (Return multiple values)
- 7.Exit program

Please Enter your choice(1-7):1

Enter data for a 1D array (separated by spaces):34 56 78 90

Data has been stored successfully

```
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Please Enter your choice(1-7):2
Display Data Summary
Total element: 4
Minimum value: 34
Maximum value: 90
Sum of all value: 258
Average value: 64.5
```

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Please Enter your choice(1-7):3

120

```
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Please Enter your choice(1-7):4

Enter a threshold value to filter out data above this value:56

Filtered Data (values >= 56):
56, 78, 90
```

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Please Enter your choice(1-7):5

Choose sorting option:

- 1.Ascending
- 2.Descending

Enter your choice1

sorted Data in Ascending order:

34, 56, 78, 90

```
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7.Exit program
Please Enter your choice(1-7):6
Minimum: 12
Maximum: 56
Total: 145
Average: 36.25
```

```
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7.Exit program
Please Enter your choice(1-7):7
Exiting program ....Good bye
```