

Welcome to the Data Analyzer and Transformer Program
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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Please Enter your choice(1-7):6
Minimum: 12
Maximum: 56
Total: 145
Average: 36.25
```

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