ASSIGNMENT 4

Student Name: Laiba Asif

Student ID: R00201303

Module: Linear Data

Date: 20/12/22

Binary Search Test Output:

```
[1, 2, 10, 11, 28, 35, 35, 38, 41, 51, 56, 63, 72, 73, 78, 79, 79, 83, 84, 98]

Please enter a search key (-1 or quit): 63
63 was found in position 11

Please enter a search key (-1 or quit): █
```

Bubble Sort Output:

```
Unsorted array: [50, 47, 42, 58, 17, 10, 71, 85, 88, 24]
Sorted array: [10, 17, 24, 42, 47, 50, 58, 71, 85, 88]
PS C:\Users\asifl\Downloads\Sort>
```

Insertion Sort Output:

```
Unsorted Array: [79, 75, 75, 78, 82, 77, 27, 21, 73, 39]


Sorted Array: [21, 27, 39, 73, 75, 75, 77, 78, 79, 82]
PS C:\Users\asifl\Downloads\Sort>
```

Selection Sort Output:

```
Unsorted Array: [28, 56, 69, 16, 26, 47, 27, 84, 19, 50]


Sorted Array: [16, 19, 26, 27, 28, 47, 50, 56, 69, 84]
PS C:\Users\asifl\Downloads\Sort> █
```

Code link

https://replit.com/join/fpcurkbhjv-laibaasif4