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Professor Shah

COMP-SCI 303
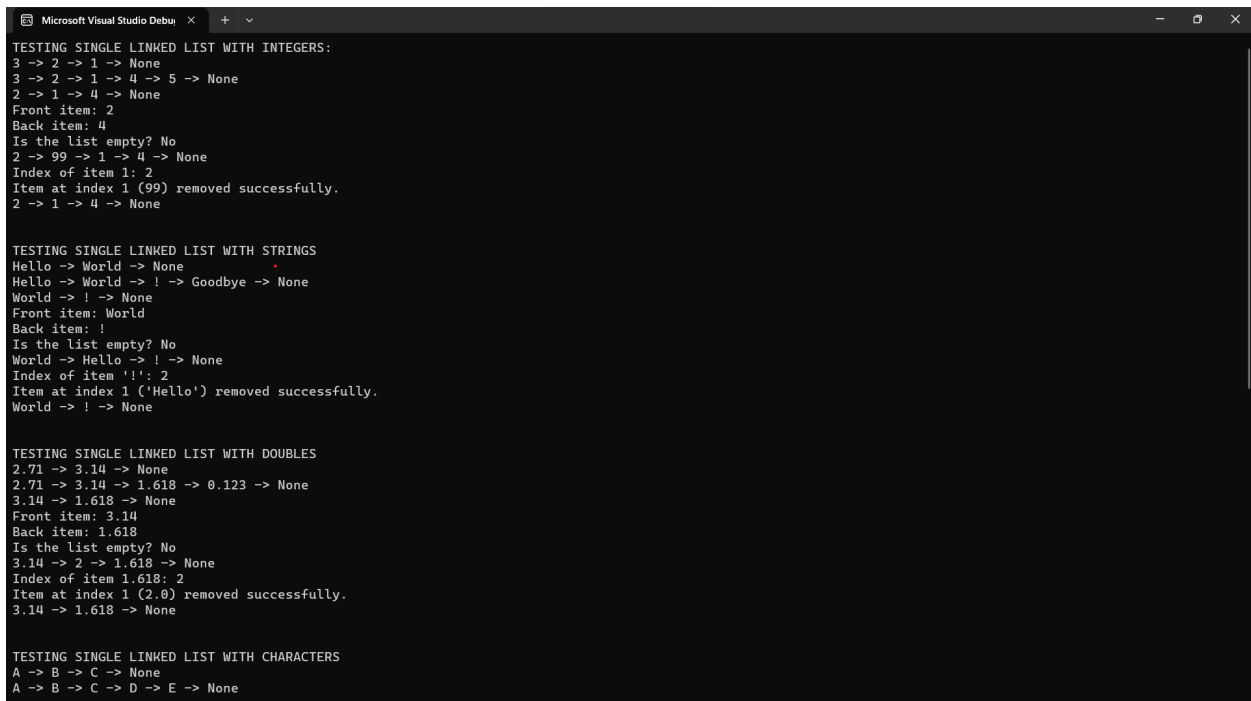
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My Assignment 2 Notes

How to Run my Program

1. My program tests single linked lists with 4 different data types: Integers, Strings, Doubles, and Characters. This is done via template class instantiation.

2. There are instances created for both the Professional and Non-Professional derived classes. They test the 3 functions.

Screenshots


```
TESTING SINGLE LINKED LIST WITH INTEGERS:
3 -> 2 -> 1 -> None
3 -> 2 -> 1 -> 4 -> 5 -> None
2 -> 1 -> 4 -> None
Front item: 2
Back item: 4
Is the list empty? No
2 -> 99 -> 1 -> 4 -> None
Index of item 1: 2
Item at index 1 (99) removed successfully.
2 -> 1 -> 4 -> None


TESTING SINGLE LINKED LIST WITH STRINGS
Hello -> World -> None
Hello -> World -> ! -> Goodbye -> None
World -> ! -> None
Front item: World
Back item: !
Is the list empty? No
World -> Hello -> ! -> None
Index of item '!': 2
Item at index 1 ('Hello') removed successfully.
World -> ! -> None


TESTING SINGLE LINKED LIST WITH DOUBLES
2.71 -> 3.14 -> None
2.71 -> 3.14 -> 1.618 -> 0.123 -> None
3.14 -> 1.618 -> None
Front item: 3.14
Back item: 1.618
Is the list empty? No
3.14 -> 2 -> 1.618 -> None
Index of item 1.618: 2
Item at index 1 (2.0) removed successfully.
3.14 -> 1.618 -> None


TESTING SINGLE LINKED LIST WITH CHARACTERS
A -> B -> C -> None
A -> B -> C -> D -> E -> None
```

```
TESTING SINGLE LINKED LIST WITH CHARACTERS
A -> B -> C -> None
A -> B -> C -> D -> E -> None
B -> C -> D -> None
Front item: B
Back item: D
Is the list empty? No
B -> C -> C -> D -> None
Index of item 'D': 3
Item at index 1 ('C') removed successfully.
B -> C -> D -> None


TESTING THE CLASSES
Professional Employee:
Weekly Salary: $1250
Health Care Contributions: $187.5
Vacation Days Earned: 15 days

Nonprofessional Employee:
Weekly Salary: $800
Health Care Contributions: $40
Vacation Days Earned: 1 days

C:\Users\owner\source\repos\assignment2\x64\Debug\assignment2.exe (process 384) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```