

Lab Task 05

1. Write a program that swaps two numbers using a stack. Make use of push and pop operations. **(Implement stack however you like).**
2. Write a program that reverses a string using a stack. **(Implement stack using array).**
3. Write a program that take a string input from a user and simulate the Undo/Redo functionality using a stack. For this you need to make two objects of the stack. Think how we can utilize the push and pop operations to build the Undo/Redo functionality. **(Implement stack using single linked list).**

Sample Output:

```
Enter a word
fariba
Enter a choice: 1). Undo 2). Redo
1

farib
Enter a choice: 1). Undo 2). Redo
1

fari
Enter a choice: 1). Undo 2). Redo
1

far
Enter a choice: 1). Undo 2). Redo
2

fari
Enter a choice: 1). Undo 2). Redo
2

farib
Enter a choice: 1). Undo 2). Redo
2

fariba
```