

Week 3 Lab 4

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Task1:

```
it@IT-RDIA-NSH:~/Chip_Design/w3l4$ vi T1.c
it@IT-RDIA-NSH:~/Chip_Design/w3l4$ gcc T1.c -o T1
it@IT-RDIA-NSH:~/Chip_Design/w3l4$ ./T1
Enter number of elements: 3
Enter elements of x: 1
2
3
Enter elements of y: 2
3
4
Enter elements of a and b: 2
3
8      13      18      it@IT-RDIA-NSH:~/Chip_Design/w3l4$
```

Source code:

https://github.com/mashaelalzaid/w3l4_coding_with_c/blob/master/T1.c

Task2:

```
racter H
it@IT-RDIA-NSH:~/Chip_Design/w3l4$ vi T2.c
it@IT-RDIA-NSH:~/Chip_Design/w3l4$ gcc T2.c -o T2
it@IT-RDIA-NSH:~/Chip_Design/w3l4$ ./T2
Enter number of characters: 9
Enter the sentence: Hello KSA!
Reading char 'H' into sentence[0]
Reading char 'e' into sentence[1]
Reading char 'l' into sentence[2]
Reading char 'l' into sentence[3]
Reading char 'o' into sentence[4]
Reading char 'K' into sentence[5]
Reading char 'S' into sentence[6]
Reading char 'A' into sentence[7]
Reading char '!' into sentence[8]
Reversed sentence is: !ASKolleH
it@IT-RDIA-NSH:~/Chip_Design/w3l4$
```

Source code:

https://github.com/mashaelalzaid/w3l4_coding_with_c/blob/master/T2.c

Task3:

```
[masha-elalzaid@ITs-MacBook-Pro test % gcc T3.c -o T3
[masha-elalzaid@ITs-MacBook-Pro test % ./T3
enter integer
2
Do you want to add more samples (y/n or 1/0) 1
enter integer
3
Do you want to add more samples (y/n or 1/0) 1
enter integer
4
Do you want to add more samples (y/n or 1/0) 0
Avg is 3.000000
Values after DC:
-1      0      1      %
masha-elalzaid@ITs-MacBook-Pro test %
```

Source code:

https://github.com/masha-elalzaid/w3l4_coding_with_c/blob/master/T3.c

Task4:

```
[mashaelalzaid@ITs-MacBook-Pro test % vi T4.c
[mashaelalzaid@ITs-MacBook-Pro test % gcc T4.c -o T4
[mashaelalzaid@ITs-MacBook-Pro test % ./T4
Enter a command (p: push, o: pop, d: display, e: exit):
p
Enter integer to add it to the stack: 1

Enter a command (p: push, o: pop, d: display, e: exit):
p
Enter integer to add it to the stack: 2

Enter a command (p: push, o: pop, d: display, e: exit):
p
Enter integer to add it to the stack: 3

Enter a command (p: push, o: pop, d: display, e: exit):
d
Values in stack after DC:
1      2      3
Enter a command (p: push, o: pop, d: display, e: exit):
o

Enter a command (p: push, o: pop, d: display, e: exit):
d
Values in stack after DC:
1      2
Enter a command (p: push, o: pop, d: display, e: exit):
e
mashaelalzaid@ITs-MacBook-Pro test %
```

Source code:

https://github.com/mashaelalzaid/w3l4_coding_with_c/blob/master/T4.c

Makefile

Source code:

https://github.com/mashaelalzaid/w3l4_coding_with_c/blob/master/Makefile