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Lab 3 report

COSC 220

2/12/21

Task 1:

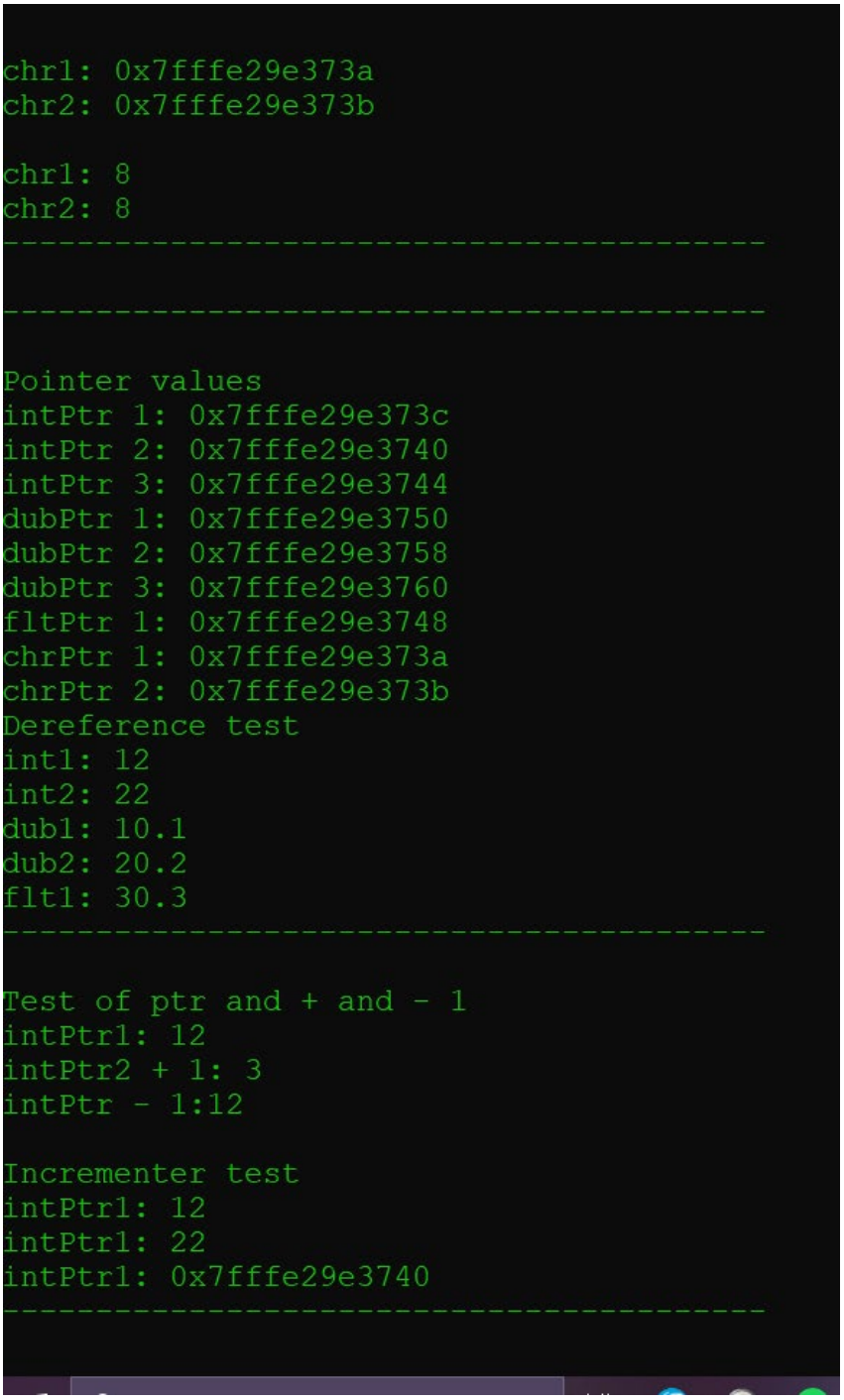
```
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/labs/Lab_3/Task_1# ./Pointers
```

```
Adressess
int 1: 0x7fffe29e373c
int 2: 0x7fffe29e3740
int 3: 0x7fffe29e3744
dub 1: 0x7fffe29e3750
dub 2: 0x7fffe29e3758
dub 3: 0x7fffe29e3760
flt 1: 0x7fffe29e3748
chr 1: ab□
chr 2: b□

Sizes
int 1: 4
int 2: 4
int 3: 4
dub 1: 8
dub 2: 8
dub 3: 8
flt 1: 4
chr 1: 1
chr 2: 1

Sizes of addressess
int 1: 8
int 2: 8
int 3: 8
dub 1: 8
dub 2: 8
dub 3: 8
flt 1: 8
chr 1: 8
chr 2: 8

----------------------------------------
```


chr1: 0x7fffe29e373a
chr2: 0x7fffe29e373b
chr1: 8
chr2: 8
Pointer values
intPtr 1: 0x7fffe29e373c
intPtr 2: 0x7fffe29e3740
intPtr 3: 0x7fffe29e3744
dubPtr 1: 0x7fffe29e3750
dubPtr 2: 0x7fffe29e3758
dubPtr 3: 0x7fffe29e3760
fltPtr 1: 0x7fffe29e3748
chrPtr 1: 0x7fffe29e373a
chrPtr 2: 0x7fffe29e373b
Dereference test
int1: 12
int2: 22
dub1: 10.1
dub2: 20.2
flt1: 30.3
Test of ptr and + and - 1
intPtr1: 12
intPtr2 + 1: 3
intPtr - 1:12
Incrementer test
intPtr1: 12
intPtr1: 22
intPtr1: 0x7fffe29e3740

```
----------------------------------------


test with dynamic allocation
New Address: 0x7fffda932080
Pointer Value:6000
Array of doubles:
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00
```

Task 2

```
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/labs/Lab_3/Task_2# ./CLassArr
How many points? 4
<0,0,0>
<1,2,3>
<2,4,6>
<3,6,9>
```

Task 3

```
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/labs/Lab_3/Task_3# ./ClassPtrArr
How many points? 8
<0,0,0>
<1,1,1>
<2,2,2>
<3,3,3>
<4,4,4>
<5,5,5>
<6,6,6>
<7,7,7>
```

Task 4

```
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/labs/Lab_3/Task_4# ./rooms_area
Input the number of rooms
3
Input the length of room 0:
5
Input the width of room 0:
6
Input the length of room 1:
8
Input the width of room 1:
2
Input the length of room 2:
6
Input the width of room 2:
4
Here is the total area of all rooms
70
Here are the stats of the Largest Room:
Length: 5
Width: 6
Perimeter: 22
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/labs/Lab_3/Task_4# 8
```