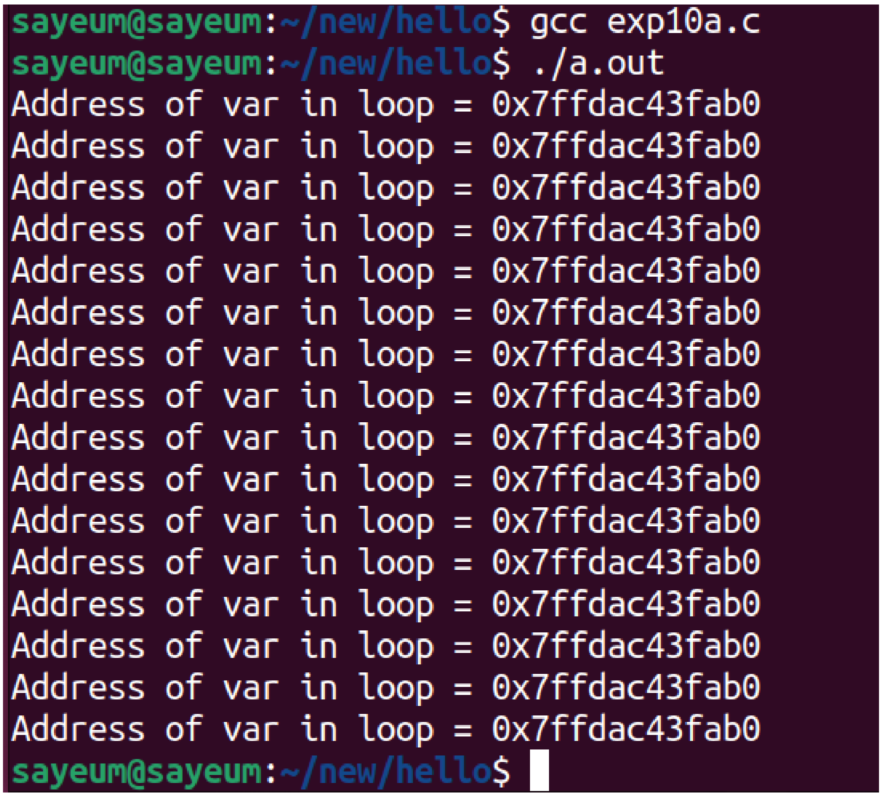
EXPERIMENT - 10

Write a C program to print the address of a variable and enter a long loop (say using while(1)).

a) Start three to four processes of the same program and observe the printed address values



```
sayeum@sayeum:~/new/hello$ gcc exp10a.c
sayeum@sayeum:~/new/hello$ ./a.out
Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
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Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
Address of var in loop = 0x7ffdac43fab0
sayeum@sayeum:~/new/hello$ 
```
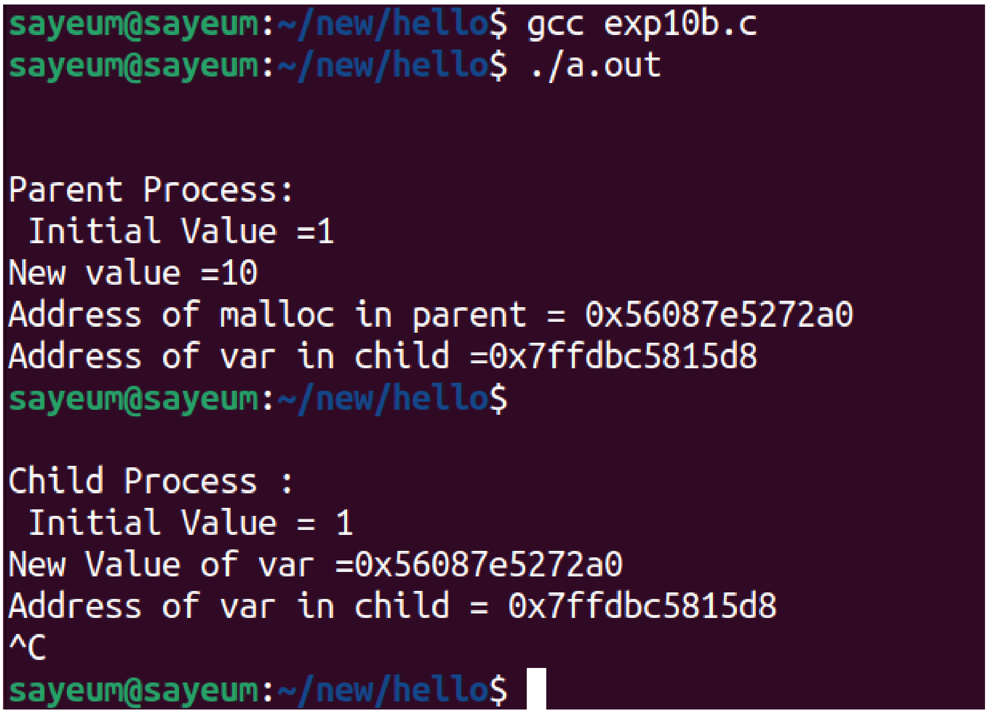

b) Show how two processes which are members of the relationship parentchild are concurrent from execution point of view, initially the child is copy of the parent, but every process has its own data



```
sayeum@sayeum:~/new/hello$ gcc exp10b.c
sayeum@sayeum:~/new/hello$ ./a.out


Parent Process:
 Initial Value =1
New value =10
Address of malloc in parent = 0x56087e5272a0
Address of var in child =0x7ffdbc5815d8
sayeum@sayeum:~/new/hello$

Child Process :
 Initial Value = 1
New Value of var =0x56087e5272a0
Address of var in child = 0x7ffdbc5815d8
^C
sayeum@sayeum:~/new/hello$
```