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.

rakshit@RG: ~/sample

GNU nano 6.2 exp10_a.c

```
#include<stdio.h>
#include<sys/types.h>
#include<unistd.h>

int main()
{
fork();
fork();

int var=1,i=1;

while(1)
{
if(i==5)
{
break;
}
printf("Address of var in loop =%p\n",&var);
i++;
}
return 0;
}
```

```
rakshit@RG:~/sample$ nano exp10_a.c
rakshit@RG:~/sample$ gcc exp10_a.c -o exp10
rakshit@RG:~/sample$ ./exp10
Address of var in loop =0x7ffc7ca20a50
Address of var in loop =0x7ffc7ca20a50
Address of var in loop =0x7ffc7ca20a50
Address of var in loop =0x7ffc7ca20a50
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Address of var in loop =0x7ffc7ca20a50
Address of var in loop =0x7ffc7ca20a50
rakshit@RG:~/sample$ Address of var in loop =0x7ffc7ca20a50
Address of var in loop =0x7ffc7ca20a50
```

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