Experiment 10: - Write a C program to print the address of a variable and enter a long loop (say using while(1)). Start three to four processes of the same program and observe the printed address values.

Syntax :

```
#include<stdio.h>
#include<sys/types.h>
#include<unistd.h>
int main(){
printf("Before fork p id :%d\n",getpid());
int i=0;
while(1){
        fork();
        if(i==3)
            break;
        i++;
   }
int var;
printf("Process id = %d\n Address of var = %u\n",getpid(), &var);
printf("END\n");
return 0;
}
```

```
┌──(aakash㉿kali)-[~/Desktop
└─$ nano exp10.c

┌──(aakash㉿kali)-[~/Desktop
└─$ gcc exp10.c

┌──(aakash㉿kali)-[~/Desktop
└─$ ./a.out
Before fork p id:9995
Process id = 9995
 Address of var = 769864600
 Address of var = 9995
End

Process id = 9999
 Address of var = 769864600
 Address of var = 9999
End
Process id = 9998
 Address of var = 769864600
 Address of var = 9998
End
Process id = 9997
 Address of var = 769864600
 Address of var = 9997
End
Process id = 9996
 Address of var = 769864600
 Address of var = 9996
End
Process id = 10001
 Address of var = 769864600
 Address of var = 10001
End
Process id = 10003
 Address of var = 769864600
 Address of var = 10003
End
```