



EXPERIMENT 10

NAME: AMANDEEP SINGH

ROLLNO. 2021A1R168

CSE SEM 3

OPERATING SYSTEM (COM-312)

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.

Command: nano filename.c

Program:

```
#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;
}
```

```
#include<stdio.h>
#include<sys/types.h>
#include<unistd.h>
int main(){
    printf("Berfore 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;
}
```