LAB 8 PROCESS MANAGMENT

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1.Fork command Code:

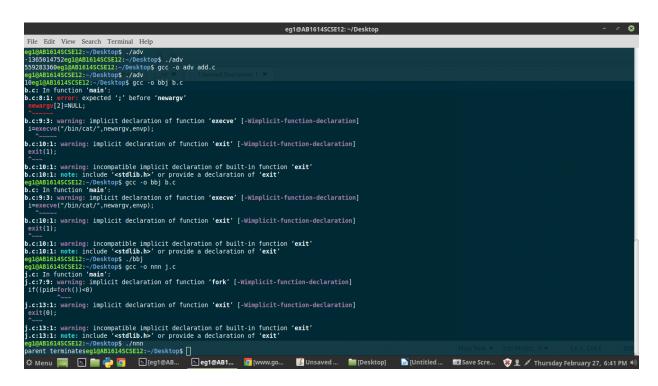
```
#include<stdio.h>
#include<stdlib.h>
int main()
{
  int a=fork();
  if(a==0)
  printf("Hello,from child");
  else
  printf("Hello,from Parent");
  return 0;
}
```

Output:

2. EXECVE command

```
#include<stdio.h>
void main()
{
int pid;
```

```
pid=fork();
if(pid==0)
printf("\n hello child");
printf("%d",&pid);
else
printf("\n hello parent");
printf("%d",&pid);
#include<stdio.h>
int main()
int sum=0;
for(int i=0;i<5;i++)
sum=sum+i;
printf("%d",sum);
#include<stdio.h>
int main(int agrc,char**argv,char**envp)
char*newargv[3];
int i;
newargv[0]="cat";
newargv[1]="add.c";
newargv[2]=NULL;
i=execve("/bin/cat/",newargv,envp);
exit(1);
```



3) Cat command using exev in c: Code:

#include<stdio.h>
#include<stdlib.h>

```
#include <unistd.h>
int main()
{
    char* argv[3] = {"/bin/cat", "fork.c", NULL};
    execve("/bin/cat", argv, NULL);
}
Output:
linux@linux-VirtualBox:~$ gedit wl.c
linux@linux-VirtualBox:~$ gcc wl.c -o cl
#include<stdio.h>
#include<stdib.h>
int main()
{
    int a=fork();
    if(a==0)
    printf("Hello,From child");
```

4) Wait and status in process: Code:

printf("Hello,from parent");

return 0;

```
#include<stdio.h>
#include<stdlib.h>
#include<sys/wait.h>
int main(void)
{
    pid_t pid;
    int status;
    if((pid=fork())<0)
    {printf("Error");}
    else if(pid==0)
    {exit(0);}
    if(wait(&status!=pid))
    {printf("wait Error\n");}
//pr_exit(status);
    if((pid=fork())<0)
{printf("Fork Error");}</pre>
```

```
else if(pid==0)
{abort();}
}
```

Output:

```
linux@linux-VirtualBox:~$ gedit w1.c
linux@linux-VirtualBox:~$ gcc w1.c
w1.c: In function 'main':
w1.c:8:9: warning: implicit declaration of function 'fork' [-Wimplicit-function-
declaration]
if((pid=fork())<0)
wl.c:16:16: warning: comparison between pointer and integer
if(wait(&status!=pid))
wl.c:16:9: warning: passing argument 1 of 'wait' makes pointer from integer with
out a cast [-Wint-conversion]
if(wait(&status!=pid))
In file included from w1.c:3:0:
/usr/include/x86 64-linux-gnu/sys/wait.h:77:16: note: expected 'int *' but argum
ent is of type 'īnt'
extern pid t wait (int * stat loc);
linux@linux-VirtualBox:~$ ./a.out
wait Error
```