Linux Programming

lab 08

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1. Fork

Output:

```
Code:
#include<stdio.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{
    int pid;
    pid=fork();
    if(pid==0)
    printf("Hello world from child\n");
    else
    printf("Hello world from parent\n");
}
```

root@Bhavesh-17mis1079:~# gcc lab8.c
root@Bhavesh-17mis1079:~# ./a.out
Hello_world from parentHello world from child

2. EXECCVE

File Name: lab8_1.c

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
int main()
{
        int a=fork();
        if(a==0)
        execve("lab8_2",NULL,NULL); //pass ex2.c object here
}
```

File Name: lab8_2.c

```
#include<stdio.h>
int main()
{
        int i,a;
        int m=0;
        for(i=1;i<=5;i++)
        {
            m=m+i;
        }
        printf("%d\n",m);
}</pre>
```

Output:

```
root@Bhavesh-17mis1079:~# gcc lab8_2.c -o lab8_2
root@Bhavesh-17mis1079:~# ./lab8_2
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```

3. Executing cat command using execve:

CODE:

Output:

4.

Code:

```
#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");
}</pre>
```

```
}
//pr_exit(status);
if((pid=fork())<0)
{
          printf("Fork Error");
}
else if(pid==0)
{
          abort();
}</pre>
```

Output: