**Week 2**

#include<unistd.h>

#include<sys/types.h>

#include<stdio.h>

#include<stdlib.h>

#include <errno.h>

#define NUM\_CHILD 5

int main()

{

pid\_t pid[NUM\_CHILD];

for(int i=0; i<NUM\_CHILD; i++)

{

pid[i]=fork();

if(pid[i]==0)

{

printf("child[%d], parent[%d]: \n",getpid(),getppid());

sleep(10);

printf("Excecuted\n");

exit(0);

}

else if(pid[i]<0)

{

printf("Error Generating the Child Process");

}

else

{

printf("parent[%d]: \n",getppid());}

sleep(1);

}

printf("The process is completed");

while(wait(NULL) != -1 || errno != ECHILD);

return 0;

}

**Output**

Text

Description automatically generated with low confidence