CSE2005 OS LAB 24/8/21 50918 L. Shyamala

Exercise 2:

Process, signal and Systemcall

1. Write a C program to create a Child process using ***fork*** system call to print even numbers and parent prints odd number till 50.

#include<stdio.h>

#include<stdlib.h>

#include<unistd.h>

int main()

{

int i;

if(fork() == 0)

{

for(i=1;i<50;i++)

if(i%2 == 0)

printf("even %d\n",i);

}

else

{

for(i=1;i<50;i++)

if(i%2 != 0)

printf("odd %d\n",i);

}

}

Execute the code and analyse for the below points, (Code doesn’t make this). Give your justification.

1. The parent and child are two processes; can we say parent runs first always? If so, do scheduling and context switching have any impact on them?
2. In multi-processor environment, how will you ensure the parent controls child process,
3. How will you ensure child finishes first and then parent,
4. **Modify above code with necessary system call and signalling to ensure the above points so that it works fine.**

**Expected Output:**

**Even numbers are followed by Odd numbers.**