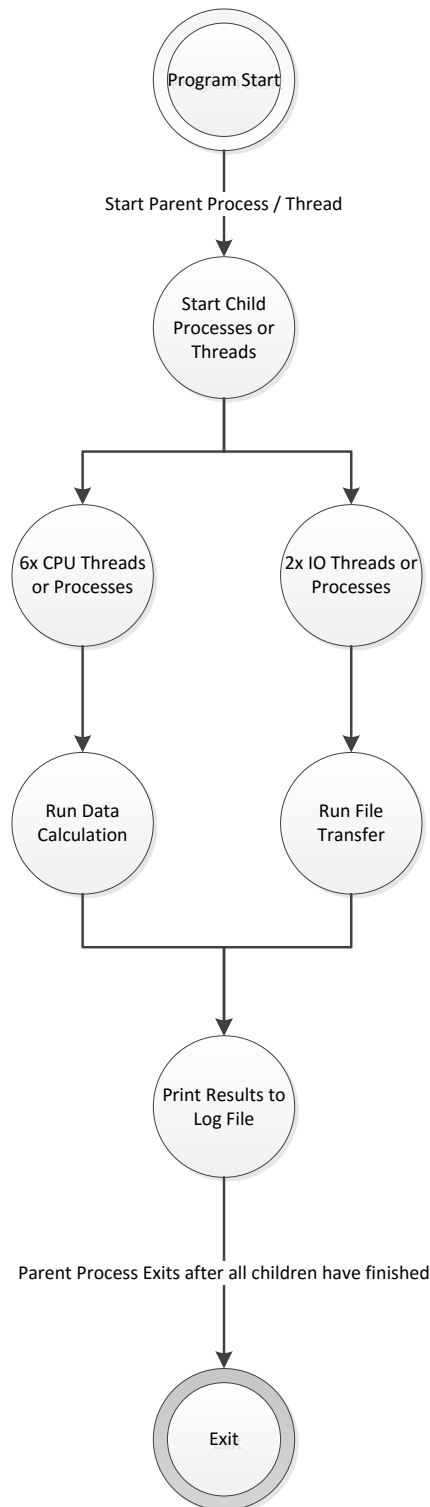


## FLOW DIAGRAM FOR BOTH PROGRAMS



## **Pseudocode (to be implemented using PROCESSES or THREADS)**

Program Start

```
{  
    Create log file and start the timer  
}
```

Start Child Processes or Threads

```
{  
    Create all variables needed for the threads and processes  
    Create 6 threads/processes that will run Data Calculation() and exit  
    Create 2 threads/processes that will run File Transfer() and exit  
}
```

Data Calculation

```
{  
    Start timer and save data to log  
    Calculate all the divisors for a certain long long number  
    Print results to console and total time to the log file  
}
```

File Transfer

```
{  
    Start timer and save data to log  
    Copy a text file over  
    Print results to console and total time to the log file  
}
```

Print Results to Log File

```
{  
    After all children processes or threads have finished print total running time to the log.  
    Free resources  
    Exit()  
}
```