Zewail City of Science and Technology
University of Science and Technology
Communication and Information Engineering Program
Operating Systems (CIE 302)

Lab 4- Requirement

Write a C program that behaves as follows:

Parent Process:

1. Forks two children.
2. Loop forever.

Child1 Process:

1. Prints its ID, its parent's ID.
2. Sleep for 5 seconds.
3. Reads a value from user.
4. Sends this value to the parent as exit code.

Child2 Process:

1. Prints its ID, its parent's ID.
2. Suspends itself (stops itself).
3. Prints a message "child process is resumed".

SIGCHLD Handler:

1. Receive exit code from child1.
2. If exit code=1, kill child2.
3. Else, Resume child2.
4. If received exit code from child2 terminate parent.