The program utilizes both pause and wait functions effectively for the bonus part.

 It employs vfork/fork and wait for non-bonus tasks.

Running the program is as simple as executing it
./ques1 for part 1 question1
./ques12 for part2 question1
./ques12bonus for bonus part of question1

```
krish@krishna:~/Desktop/SEM3/OS/ques1$ make
gcc -Wall -Wextra -o ques1 ques1.c
gcc -Wall -Wextra -o ques12 ques12.c
gcc -Wall -Wextra -o quest12bonus quest12bonus.c
krish@krishna:~/Desktop/SEM3/OS/ques1$ ./ques1
Parent is having ID 34255
Child is having ID 34256
My Parent ID is 34255
ID of Child is 34256
krish@krishna:~/Desktop/SEM3/OS/ques1$ ./ques12
Factorial of 4 is: 24
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
krish@krishna:~/Desktop/SEM3/OS/ques1$ ./quest12bonus
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
Factorial of 4 is: 24
```

Result of How the code is working