

## BLG312E – Assignment1

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Q1 – part e)

The question wants 1 parent and 3 child. My solution is about the place of “fork”. In normal code, the children, which we created with fork, can create a child also. And later on, they will be both child and parent. But we need to prevent this. We can prevent this like:

- ➔ Open an if-else structure and provide only parents can create children.
- ➔ But also our main process is not a parent when the program runs at the first. At the first result should be equal to 1 which is larger than 0.
- ➔ In final, first process should behave like a parent and later on, it will be real parent and can create new children with fork. However, the other processes can not create any fork because they are not a parent and result equals to 0.

The code should be modify as in the below:

```
#include <stdio.h>
#include <unistd.h>

int main()
{
    int i = 1;
    int result = 1;

    for (i = 1; i <= 3; i++)
    {
        if (result == 0)
            break;
        else
            result = fork();

        if (result == 0)
            printf("Child process %d.\n",i);
        else
            printf("Parent process (i=%d).\n",i);
    }
}
```