Week 4 – Software

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Bonus point assignment – week 4

Like the factorial example, you can also implement the calculation of a power of 2 in assembly. For example you want to calculate 2^4 = 16. Use iteration to calculate the result. Store the result in r0.

```
Main:

    MOV r0, #1

    MOV r1, #2

    MOV r2, #4


Loop:

    CMP r2, #0

    BEQ End

    MUL r0, r0, r1

    SUB r2, r2, #1

    B Loop


End:
```