

Assignment Week 11

(1)

Proof by induction:

Base case:

$$\text{fact}(1) = 1$$

Inductive step:

$$\text{Assume: } \text{fact}(2) = 2 * \text{fact}(1) = 2$$

$$\text{Then: } \text{fact}(n) = n * \text{fact}(n-1)$$