

# BED0178 Week 5

## 1

### 1.1

- $T(0) = 1$
- $T(n) = 5T(n-1)$

$$T(1) = 5 \times 1 = 5 = 5^1$$

$$T(2) = 5 \times 5 \times 1 = 25 = 5^2$$

$$T(4) = 5 \times 5 \times 5 \times 5 \times 1 = 625 = 5^4$$

$$T(n) = 5^n$$