## 2. Evaluate:

$$\sum_{n=0}^{6} 3^n$$

**Solution:** The expression given in this example is the sum of 6 terms because we have n = 0 for the first term.

$$\sum_{n=0}^{6} 3^n = 3^0 + 3^1 + 3^2 + 3^3 + 3^4 + 3^5 + 3^6$$

$$=1+3+9+27+81+243+729$$