

**DAA (Design and Analysis of Algorithms)**

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**Class Id: ………**

**Assignment: 01 (Asymptotic Notations)**

Submitted to: **Sir Farooq Zaidi**

**Question:**

Proof (and explain that proof) the 4 statements in the PDF attached. Revise DM to understand how you prove or disprove a statement. Do the assignment in groups and discuss among your peers. Type your proof using Microsoft Word equations tools and export it as PDF. Save the PDF in your GitHub repository in a folder named "Assign01"

**Proof:**

*12 ⥶ 14 ∀ n ⥸ 1*

**Proved !!!**

**Proof:**

**Proved !!!**

**Proof:**

**Not Proved !!!**

(Because this is **transpose symmetric property** this property only satisfies for **O** and 𝜴 notation, not for **Θ** notation.)

**Proof:**

*109 ⥶ 1792*

**Proved !!!**