**📝 Assignment 1:**

**🔷 Instructions:**

* Answer all questions.
* Use clear and concise language.
* Handwritten or typed submission is acceptable.

**📚 Questions:**

1. **Define the following terms with suitable examples:**
   * Data
   * Information
   * Data Type
   * Data Object
   * Abstract Data Type (ADT)
2. **Differentiate between the following pairs with examples:**
   * Data Item vs Field
   * Record vs File
   * Entity vs Attribute
3. **Explain the need for data structures in C programming. Provide at least 2 real-life examples.**
4. **List any four data structures. For each, mention:**
   * Whether it is linear or non-linear
   * One real-world application
5. **What is algorithmic notation? Why is it important?**
6. **Explain different control structures in C with syntax and an example:**
   * Sequential
   * Selection (if, if-else, switch)
   * Iteration (for, while, do-while)