# Dr. Sohail

## Last lecture summary

- Computer Program
- What are Data Structures?
- Data Structures Operations
- Why Data Structures?
- Need for Data Structures
- Organizing Data
- Efficiency
- Selecting a Data Structure
- Data Structure Philosophy

## Today's Lecture

- Introduction to Algorithms
- What is an Algorithm?
- Computer Algorithm and Program
- Favorite and Efficient Algorithm
- Measuring Efficiency
- Running Time of an Algorithm
- Analyzing an Algorithm with Simple Example
- Algorithm History
- Algorithm Applications

## What is an algorithum

- Algorithm in simple words is a set of steps to complete a task. For example,

**Make a cup of tea.**

- **Algorithm:**

1. Add water and milk to the kettle,

2. Boil it,

3. Add tea leaves,

4. Add sugar, and then

5. Serve it in cup.