

## Syllabus

- Introduction to Object Oriented Programming
- C++ Introduction
- Namespaces
- Functions
- Class and Object
- Exception Handling
- Memory management
- Inheritance
- Virtual Function

## Agenda

Limitations of C  
History  
Major and Minor Pillars of OOPs  
DataTypes  
Structure in C and CPP

## Important Points

- 7 days we are going to learn OOP using C++
- OOP Concepts -> CPP
- 7-9 Questions in CCAT Exam
- Straight Forward Question (Theory questions -> NOT Twisters )
- It is prerequisite of your CDAC Course
- 3 hrs \* 7 days -> 21 hrs

## Limitations if C

- It is a POP(procedure oriented programming)
- Functions-> maintaining such code becomes complex
- top down apporach
- Data security

## History

- Bjarne Stroustrup
- C with classes

- C++(C PLUS PLUS)CPP

## Major and Minor Pillars of OOP's

- Object Oriented Programming(OOP)
- 1. Major Pillars
  - a. Abstarction
  - b. Encapsulation
  - c. Modularity
  - d. Hirerachy(Association & Inheritance)
- 2. Minor Pillars
  - a. Typing/Polymorphism
  - b. Concurrency
  - c. Persistance

## Datatypes

- 1. Fundamental datatype
  - void, int, float, double, char
- 2. Derived datatype
  - Array, Fuction, Pointer, Structure
- two more datatypes are introduced
  - a. bool
  - b. wchar\_t