



# Dart

## Course Content

# Dart

- Dart is a client-optimized programming language for apps on multiple platforms.
- It is developed by Google and is used to build mobile, desktop, server, and web applications.

## Prerequisites to Learn Dart

- Core PHP Concept, Web Design, MySQL



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## Introduction

- ✓ What is Dart?
- ✓ Features
- ✓ Environment Setup For Dart
- ✓ First Dart Program

## DataTypes & Variable

- ✓ DataTypes in Dart
- ✓ Variable in Dart
- ✓ Keyword in Dart
- ✓ Comments in Dart

## Operators in Dart

- ✓ What is Operator?
- ✓ Arithmetic Operators
- ✓ Relational Operators
- ✓ Increment/Decrement Operator
- ✓ Arithmetic Operators
- ✓ Logical Operators
- ✓ Type test Operators
- ✓ Conditional Operators

## Conditional Statement

- ✓ IF Statement
- ✓ IF ELSE Statement
- ✓ ELSE IF Statement
- ✓ NESTED IF ELSE Statement
- ✓ Switch Statement
- ✓ Case Statement

## Looping Structure

- ✓ while Loop
- ✓ do while Loop
- ✓ For Loop
- ✓ for...in Loop
- ✓ Nested Loop

## Looping Structure

- ✓ What is List?

### Types of Listerism

- ✓ Fixed Length List
- ✓ Growable List
- ✓ List Properties
- ✓ List Methods

## Map in Dart

- ✓ What is List?
- ✓ Different ways of Map Declaration
- ✓ Map Properties
- ✓ Map Methods

## Collenctions & Generics

- ✓ What is Collection?

### Types of Collections

- ✓ List
- ✓ Set
- ✓ Maps
- ✓ Queue

## Function in Dart

- ✓ What is Function?
- ✓ Defining Function
- ✓ Calling Function
- ✓ Returning Function
- ✓ Parameterized Function

### Optional Positional Parameter

- ✓ Positional Parameter
- ✓ Named Parameter
- ✓ Parameters with Default Values
- ✓ Recursive Functions
- ✓ Lambda Functions

## String Functions in Dart

- ✓
- ✓
- ✓
- ✓
- ✓

## Number Functions in Dart

- ✓
- ✓
- ✓
- ✓
- ✓





## Object Oriented Concepts

- ✓ Basics of OOPs

### Class & Objects

- ✓ What is class?
- ✓ How to define class?
- ✓ How to access class members?
- ✓ Member functions in class
- ✓ Types of member function

## Constructor

### What is constructor?

- ✓ How to declare constructor?
- ✓ Types of constructor
- ✓ Named Constructor

## This Keyword & Static Keyword

- ✓
- ✓
- ✓
- ✓
- ✓

## Class - Getters and Setters

- ✓
- ✓
- ✓
- ✓

## Interfaces

- ✓ What is Inheritance ?
- ✓ How to declare Multiple Interfaces?

## Inheritance

- ✓ What is Inheritance ?

### Types of Inheritance

- ✓ Single
- ✓ Multilevel
- ✓ Hierarchical
- ✓ Hybrid

## Method Overriding

- ✓
- ✓
- ✓
- ✓

## Exception Handling

- ✓ What is Exception ?
- ✓ try/on/catch/finally/throw keyword
- ✓ Custom Exceptions

## Libraries in Dart

- ✓ What is Library?
- ✓ Built in Libraries
- ✓ How to create Custom Library?
- ✓ How to import Custom Library?
- ✓ Library Prefix

## Async in Dart

- ✓
- ✓
- ✓
- ✓
- ✓







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