

* Object Oriented Programming (OOP) - Practical Number - 1.

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Class:- Second Year Engineering.

Div:- A Roll Number:-

Batch:-

Department:- Computer Department

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Title:-

Difference between Object Oriented Programming and Procedural Oriented Programming.

Learning Objectives:-

To understand the basic difference OOP and Procedural Oriented Programming Learning.

Outcome:-

Student are able to write C++ programs using basic concepts.

Aim:-

Write a simple C++ program to display person's name and number.

Software and Hardware Required:-

Linux Operating Systems, GCC, Eclipse framework.

Theory:-

	Procedure Oriented Programming	Object Oriented Programming
Divided Into	In POP, program is divided into small parts called functions.	In OOP, program is divided into parts called objects.
Approach	POP follows Top Down approach.	OOP follows Bottom Up approach.
Access Specifier	POP does not have any access specifier.	OOP has access specifier named Public, Private, Protected, etc.
Data Moving	In POP, Data can move freely from function to function in the system.	In OOP, objects can move and communicate with each other through member functions.
Expansion	To add new data and function in POP is not so easy.	OOP provides an easy way to add new data and function.
Data Hiding	POP does not have any proper way for hiding data so it is less secure.	OOP provides Data hiding so provides more security.

Algorithm:-

1. Declare class with variables and member variable.
2. Accept name and number.
3. Display name and number.
4. Stop.

Test Case:-

Input:-

Enter the Name - Haustubh

Enter the Number - 29.

Expected Output:-

Haustubh

29.

Conclusion:-

Thus we have understood difference between procedure and object oriented programming language. Also we have studied and implemented C++ program using basic constructor of OOP.