

**Modern Education Society's
Wadia College of Engineering, Pune**

NAME OF STUDENT:	CLASS:
SEMESTER/YEAR:	ROLL NO:
DATE OF PERFORMANCE:	DATE OF SUBMISSION:
EXAMINED BY:	EXPERIMENT NO:

TITLE : STUDENT DATABASE

PROBLEM STATEMENT : Develop an object oriented program in C++ to create a database of student information system containing the following information: Name, Roll number, Class, division, Date of Birth, Blood group, Contact address, telephone number, driving license no. etc Construct the database with suitable member functions for initializing and destroying the data viz constructor, default constructor, Copy constructor, destructor, static member functions, friend class, this pointer, inline code and dynamic memory allocation operators-new and delete.

OBJECTIVES:

1. To use the object-oriented paradigm in program design.
2. To lay a foundation for advanced programming.
3. Provide programming insight using OOP constructs.

OUTCOMES:

1. Analyze the strengths of object oriented programming.
2. Design and apply OOP principles for effective programming.

PRE-REQUISITES:

1. Knowledge of object oriented programming concepts.

APPARATUS:

1. OS: Ubuntu 18.04.2 LTS
2. Processor: Intel® Core™ i7-4790S CPU
3. Graphics: GeForce GT 610/PCIe/SSE2
4. Storage: 500 GB
5. Text Editor: gedit
6. Compiler: GNU C++ Compiler (g++)
7. Terminal

QUESTIONS:

1. Can we have more than one constructors in a class? If yes, explain the need for such a situation?
2. How is dynamic initialization of objects achieved?