

**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 : BOOK & AUDIO CASSETTE

PROBLEM STATEMENT : Imagine a publishing company which does marketing for book and audio cassette versions. Create a class publication that stores the title (a string) and price (type float) of a publication. From this class derive two classes: book, which adds a page count (type int), and tape, which adds a playing time in minutes (type float). Write a program that instantiates the book and tape classes, allows user to enter data and displays the data members. If an exception is caught, replace all the data member values with zero values.

OBJECTIVES:

1. To understand Inheritance and its types .

OUTCOMES:

1. Develop programming application using object oriented programming language C++.
2. Design and apply OOP principles for effective programming.

PRE-REQUISITES:

1. Knowledge of class, object.
2. Knowledge of string functions.

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. How do the properties of the following two derived classes differ?
 - a. class D1: private B{//....};
 - b. class D2: public B{//....};
2. When do we use the protected visibility specifier to a class member?
3. Describe the syntax of single inheritance in C++.