

Lab Tasks:

1. We are developing a grading system for students which have the following information. Student-Id, Student-Name, Department, Semester, Courses and Marks in Courses. A course has following information (Course-ID, Course-Name, Marks). Define nested structure for the above information.
 - a) Define a function that takes input from user to set student information.
 - b) Define a function that displays the output of student information.
2. Imagine a publishing company, that markets both book and audiocassette versions of its works. Create a class called 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). Each of the three classes should have a getdata() function to get its data from the user at the keyboard, and a putdata() function to display the data.
3. Write a main () program that creates an array of pointers to publication. In a loop, ask the user for data about a particular book or tape, and use new to create an object of type book or tape to hold the data. Put the pointer to the object in the array. When the user has finished entering the data for all books and tapes, display the resulting data for all the books and tapes entered, using for loop.