**Date: 29-08-2023**

1. A book shop maintains the inventory of books that are being sold at the shop. The list includes details such as author, title, price, publisher and stock position. Whenever a customer wants a book, the sales person inputs the title and author and the system searches the list and displays whether it is available or not. If it is not, an appropriate message is displayed. If it is, then the system displays the book details and requests for the number of copies required. If the requested copies are available, the total cost of the requested copies is displayed; otherwise the message "required copies not in stock" is displayed. Design a system using a class called books with suitable member functions and constructors
2. Design and implement Employee Information System(EIS), comprising of a class called Employee which include details such as Employee ID, Name, Designation, Salary. The class also provides functionalities such as displaying employee details, searching an employee based on employee ID, provision for salary increment (10%), etc. The main class of EIS initially collect all employee details and later it provides menu items such as search, salary increment, and display.
3. Develop Stack with following operations    
   i) createNew( )        ii) push( )      iii)   pop( )      iv) display( )    v) empty( )