Lab Assignment - 5

1. Define a class called Point that stores the x and y coordinates of the point. WAP that uses parameterized constructor for initializing the class objects and also display the coordinates.

2. Define a class called Complex that stores real and imaginary part of the complex number. WAP that uses overloaded constructors for initializing the class objects and also display the part.

3. WAP using appropriate constructors and destructors to represent the bank account with following specification
   - ❏ Private members
     - ✓ Name of the depositor
     - ✓ Account number
     - ✓ Type of account
     - ✓ Balance amount in the account
   - ❏ Public members function to
     - ✓ Assign initial values
     - ✓ Deposit an amount
     - ✓ Withdraw an amount after checking balance
     - ✓ Display name and balance

School of Computer Engineering

Lab Assignment - 5

4. WAP using appropriate constructors and destructors to represent the vector and include the member functions to form the following tasks:
   - ❏ Create the vector
   - ❏ Modify the value of a given element
   - ❏ Multiply by scalar value
   - ❏ Display the vector in the form (10, 20, 30,...)

5. A book shop maintains the inventory of books that are being sold at the workshop. 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. WAP using a class called Books with suitable member functions and constructors.