# *ICT LAB TASK-10*

## Task: Implement a C++ Class for a "LibraryBook"

## Create a C++ program that defines a class LibraryBook with the following details:

## 1. Private Data Members:

## o int availableCopies; // Number of copies available

## 2. Public Data Members:

## o string title; // Title of the book

## o string author; // Author of the book

## o long ISBN; // ISBN number of the book

## 3. Member Functions:

## o void setCopies(int copies); // Sets the available copies

## o int getCopies(); // Returns the available copies

## o void displayDetails(); // Displays book details (title, author, ISBN, and available

## copies)

## 4. Main Function:

## o Create an instance of LibraryBook.

## o Prompt the user to enter the book's title, author, ISBN, and availableCopies.

## o Use setCopies to assign a value to availableCopies (a private member).

## o Display the book's details using displayDetails().

## Solution:

## Code:

#include <iostream>

#include <string>

using namespace std;

class LibraryBook {

private :

int availableCopies;

public :

string title;

string author;

string ISBN;

void setCopies(int copies){

availableCopies = copies;

}

int getCopies() {

return availableCopies;

}

void displayDetails() {

cout<<" Book's Title: "<< title << endl;

cout<<" Book's Author: "<< author << endl;

cout<<" ISBN: "<< ISBN << endl;

cout<<"available Copies: "<< availableCopies <<endl;

}

};

int main() {

LibraryBook book;

cout<<"\nEnter Books' Title:" << endl;

getline(cin, book.title);

cout<<"\nEnter Books' Author:" << endl;

getline(cin, book.author);

cout<<"\nEnter Books' ISBN:" << endl;

getline(cin, book.ISBN);

int copies;

cout<<"\nEnter Books' Available Copies:" << endl;

cin >> copies;

book.setCopies(copies);

cout<<"\nDetail's Ended!"<< endl;

cout<<"\nPrinting Details:"<< endl;

book.displayDetails();

return 0;

}

## Output:

