

Practical-7

Date: _____

AIM:

- i. Write a program with use of inheritance: Define a class publisher that stores the name of the title. Derive two classes book and tape, which inherit publisher. Book class contains member data called page no and tape class contain time for playing. Define functions in the appropriate classes to get and print the details.
- ii. Create a class account that stores customer name, account no, types of account. From this derive classes cur_acc and sav_acc to include necessary member function to do the following:-• Accepts deposit from customer and update balance• Compute and Deposit interest• Permit withdrawal and Update balance.
- iii. Write a base class named Employee and derive classes Male employee and Female Employee from it. Every employee has an id, name and a scale of salary. Make a function ComputePay (in hours) to compute the weekly payment of every employee. A male employee is paid on the number of days and hours he works. The female employee gets paid the wages for 40 hours a week, no matter what the actual hours are. Test this program to calculate the pay of employee.

i).

```
#include <iostream>
#include <string>
using namespace std;
class Publisher {
protected:
    string title;
public:
    void getPublisherDetails() {
        cout << "Enter title : ";
        cin.ignore();
        getline(cin, title);
    }
    void displayPublisherDetails() {
        cout << "Title : " << title << endl;
    }
};

class Book : public Publisher {
private:
    int page_no;
public:
    void getBookDetails() {
        getPublisherDetails();
        cout << "Enter number of pages : ";
        cin >> page_no;
    }
};
```

```

void displayBookDetails() {
    displayPublisherDetails();
    cout << "Number of pages : " << page_no << endl;
}

int main() {
    Book myBook;
    Tape myTape;

    cout << "Enter details for the book : \n";
    myBook.getBookDetails();
    cout << "Enter details for the tape : \n";
    myTape.getTapeDetails();
    cout << "In Displaying book details : \n";
    myBook.displayBookDetails();
    cout << "In Displaying Tape details : \n";
    myTape.displayTapeDetails();
    return 0;
}

```

Output :-

Enter details for the book : Enter title : Russian book Enter number of pages : 123 Enter details for the tape : Enter title : movie tape Enter playing : 1234 Displaying book details : Title : Russian Number of Pages : 123 Displaying tape details : Title : movie tape Playing time : 1234 minutes
