

O O J LABLAB PROG-3

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```

3.) import java.util.*;
class Book
{
    String name, author;
    int num-pages, price;
    Book()
    {
        num-page = 0;
        price = 0;
    }
    void accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name of  

name = s the book and the author");
        name = sc.nextLine();
        author = sc.nextLine();
        System.out.println("Enter the price of the  

        books and the num-  

        ber of pages in it");
        price = sc.nextInt();
        num-page = sc.nextInt();
    }
    public String toString()
    {
        return ("Name of the book : " + name +
        "\nAuthor : " + author + "\nPrice : " +
        price + "\nNo. of Pages : " + num-pages);
    }
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        Book b = new Book
        System.out.print("Enter value of n\n");
        int n = sc.nextInt();
    }
}

```

```
Book b[] = new Book[n];  
for (int i = 0; i < n; i++)
```

```
    b[i] = new Book();
```

```
    b[i].accept();
```

```
    System.out.println("For Book : " + (i+1));
```

```
    System.out.println(b[i]);
```

}

}

LAB PROG-4

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```
4.) import java.util.*;
class Account
{
    private String name;
    private &int account_num;
    private int account_type;
    double balance;
    void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter account holders
                               name");
        name = sc.next();
        System.out.println("Enter acct no.");
        account_num = sc.nextLong();
        System.out.println("Account type : Enter :
                               \n 1. Savings Acct \n
                               2. Current acct");
        account_type = sc.nextInt();
    }
    void get_data()
    {
        System.out.println("Acct holders name:" + name);
        System.out.println("Acct Numb:" + account_num);
    }
    int return_account_type()
    {
        return account_type;
    }
}
```

class savings extends Account

{

Scanner sc = new Scanner(System.in);

double amount;

void get_sav_balance ()

{

System.out.println("Enter amount you wish to deposit");

amount = sc.nextDouble();

balance = balance + amount;

}

void display_sav_balance ()

{

System.out.println("balance = " + balance);

}

void compute_sav_interest ()

{

System.out.println("Calculating Comp Interest");

System.out.println("Enter rate");

float rate = sc.nextFloat();

System.out.println("Enter time in years");

int time = sc.nextInt();

System.out.println("Enter principle");

float P = sc.nextFloat();

float CI = (float) ((P * (Math.pow(1 + rate / (12 * 100), (12 * time)))) - P);

System.out.println("CI = " + CI);

balance = balance + CI;

System.out.println("After adding interest balance = " + balance);

}

void withdrawl_sav ()

{ double amount;

System.out.println("Enter amount to be withdrawn");

amount = sc.nextDouble();

balance = balance - amount;

}

(4)

class current extends Account

```
{
    Scanner sc = new Scanner(System.in);
    double amount;
    final double min_balance = 5000;
    void get_cur_balance()
    {
        System.out.println("Enter the amount to be
        placed in your current acct");
        amount = sc.nextDouble();
        balance = balance + amount;
    }
    void display_cur_balance()
    {
        System.out.println("Balance = " + balance);
    }
    void compute_cur_service_charges()
    {
        if (balance < min_balance)
        {
            System.out.println("service tax of Rs.150
            shall be charged to your acct");
            balance = balance - 150;
        }
        else
        {
            System.out.println("Min balance is
            maintained");
        }
    }
    void withdraw_curr()
    {
        System.out.println("Enter the amt. to be
        withdrawn");
        amount = sc.nextDouble();
        balance = balance - amount;
    }
}
```

class Bank

{

public static void main (String args[])

{

Scanner sc = new Scanner (System.in);

int type;

System.out.println ("Enter bank details");

Account acc = new Account ();

acc.input ();

type = acc.return_acct_type ();

if (type == 1)

{

System.out.println ("Savings Acct");

acc.get_data ();

savings sav = new savings ();

sav.get_sav_balance ();

sav.display_sav_balance ();

System.out.print ("Calculating
interest");

sav.compute_sav_interest ();

sav.display_sav_balance ();

sav.withdrawal_sav ();

sav.display_sav_balance ();

}

else if (type == 2)

{

System.out.println ("Current Account");

acc.get_data ();

current cur = new current ();

cur.get_cur_balance ();

cur.display_cur_balance ();

cur.compute_cur_service_charges ();

cur.display_cur_balance ();

cur.withdrawal_cur ();

cur.display_cur_balance ();

}

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