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ASSIGNMENT.NO.8

TITLE **:** Identification and Implementation of GRASP pattern

Apply any two GRASP pattern to refine the Design Model for a given problem description Using effective UML 2 diagrams and implement them with a suitable object oriented language

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//creator

package bank;

public class creator {

    int bank\_id;

    String b\_name=new String();

    public void put()

    {

        System.out.println("This is a bank");

        System.out.println("Bank id is:"+bank\_id);

        System.out.println("Bank name is:"+b\_name);

    }

    public void get()

    {

        bank\_id=10;

        b\_name= "HDFC bank";

    }

    public static void main(String[] args) {

        creator l=new creator();

        account a=new account();

        l.get();

        l.put();

        a.get();

        a.put();

    }

}

//ACCOUNT

package bank;

public class account {

  String acc\_holder=new String();

  account()

  {

  }

    public void put()

    {

        currentaccount c=new currentaccount();

        savingaccount s=new savingaccount();

        System.out.println("Account holder is:"+acc\_holder);

        c.get();

        c.put();

        c.withdraw();

        s.get();

        s.put();

    }

    public void get()

    {

        acc\_holder= "abc";

    }

}

//SAVING ACCOUNT

package bank;

public class savingaccount extends account{

    int account\_no;

    int balance;

    savingaccount()

    {

    }

    public void put()

    {

 System.out.println("This is the saving account class");

 System.out.println("The account no of saving account is "+account\_no);

 System.out.println("The balance in saving account is "+balance);

    }

    public void get()

    {

        account\_no= 35;

        balance= 20000;

    }

}

//CURRENT ACCOUNT

package bank;

public class currentaccount extends account{

    currentaccount()

    {

    }

    int acc\_no;

    int bal;

       public void put()

    {

        System.out.println("This is the current account class");

        System.out.println("The account no of current account is:"+acc\_no);

        System.out.println("The balance in current account is:"+bal);

    }

    public void get()

    {

        acc\_no=12;

        bal=25000;

    }

    public void withdraw()

    {

        System.out.println("Can Withdraw the amount less than current amount ");

    }

}

//OUTPUT

Can Withdraw the amount less than current amount

This is the saving account class

The account no of saving account is 69

The balance in saving account is 30000

Low coupling

package college;

public class erp {

  private login1 l;

  login1 getV(){

  return l;

  }

  void setV(login1 n){

this.l = n;

  }

  void startlogin(){

l.check\_att();

  }

public static void main(String[] args) {

erp e1 = new erp();

e1.setV(new student1());

e1.startlogin();

e1.setV(new staff1());

e1.startlogin();

}

}

-----------------------------------------------------------------------------------------------

package college;

public interface login1 {

public void check\_att();

}

------------------------------------------------------------------------------------------------

package college;

public class student1 implements login1 {

public void check\_att()

{

System.out.println("Attendence checked by student");

}

}

-------------------------------------------------------------------------------------------------

package college;

public class staff1 implements login1 {

public void check\_att()

{

System.out.println("Attendence checked by staff");

}

}

--------------------------------------------------------------------------------------------------

OUTPUT

Attendence checked by student

Attendence checked by staff