

SESSION 5 PROGRAMS(OOPS Features)

Program 1

```
//Bean Class to show Data Hiding & Encapsulation
public class EmployeeBean {

    //Hiding Data by making variables private
    private int empId;
    private String empName;
    private String empLocation;

    //Call public method outside class to access private variables indirectly
    thru this method
    public int getEmpId() {
        return empId; //Private Data put inside public method
    }

    //Call public method outside class to access private variables indirectly
    thru this method
    public void setEmpId(int empId) {
        this.empId = empId; //Private Data put inside public method
    }

    public String getEmpName() {
        return empName; //Private Data put inside public method
    }
    public void setEmpName(String empName) {
        this.empName = empName; //Private Data put inside public method
    }

    public String getEmpLocation() {
        return empLocation; //Private Data put inside public method
    }
    public void setEmpLocation(String empLocation) {
        this.empLocation = empLocation; //Private Data put inside public
method
    }
}
```

Core Java Training

Program2

//Parent BankAcct Class Hierarchy to show Inheritance

```
public class BankAcct {  
  
    protected String ifscCode;  
    private String bankName;  
    private String branchAddress;  
  
    public BankAcct()  
    {  
        System.out.println("BankAcct Constructor is called ");  
    }  
  
    public void setIfscCode(String ifscCode) {  
        this.ifscCode = ifscCode;  
    }  
  
    public void setBankName(String bankName) {  
        this.bankName = bankName;  
    }  
  
    public void setBranchAddress(String branchAddress) {  
        this.branchAddress = branchAddress;  
    }  
  
}
```

Program2

//Child class of BankAcct

```
public class SBIAcct extends BankAcct {  
  
    public SBIAcct() {  
        System.out.println("SBIAcct Constructor is called ");  
    }  
  
    public static void main(String[] args)  
    {  
  
        SBIAcct sbiandheriAcct = new SBIAcct() ;  
  
        //Below methods inherited from BankAcct Class  
        sbiandheriAcct.setBankName("SBI");  
        sbiandheriAcct.setBranchAddress("Andheri");  
  
    }  
  
}
```

SESSION 5 ASSIGNMENTS

1. Write a Program to create Student bean class with private variables

studId , studName,studDiv

Generate public getters/setters for above variables .

Now create a Main class .

In the Main class create object of Student Bean class

Try accessing private variables & getters/setters.

2. Create a parent class Company

Create 1 protected variable compId

Create 2 private variables compName & compAddress

Create public setter methods for above variables

Now Create a child class TCS

Create main method

Create object of TCS class in the main method.

Try accessing Company class variables & methods .