Stack

E1

empid
1

name
rohan

salary
1000

doj

day

month

year

Composition

E1

empid
1

name
rohan

salary
1000

*veh_ptr

~~NULL~~
200

veh_name

veh_number

200

Aggegration

Parent

Base

Child

Derived

Single Inheritance

Parent

Base

Direct

Child

Indirect

Derived 1

Parent

Child

Derived 2
Indirect Derived

Multilevel Inheritance

Parent

Base 1

Parent

Base 2

Child

Derived

Multiple Inheritance

Base

Derived 1

Derived 2

Derived 3

Hirerachical Inheritance

Base

Derived 1

Diamond
Problem

Derived 2

Indirect
Derived

Hybrid Inheritance

Person

name;
dob;
address;
mobile;

Employee

empid;
salary;

name;
dob;
address;
mobile;

Student

rollno;
marks;

name;
dob;
address;
mobile;

Base

int num1 = 10;

Derived1

int num2 = 20;
int num1 = 10;

Derived2

int num3 = 30;
int num1 = 10;

int num4 = 40;
//B
int num2 = 20;
int num1 = 10;
//C
int num3=30;
int num1=10;

Indireact Derived

Base

num1

10

Derived1

base

num1

num2

20

Derived2

base

num1

num3

30

IndirectDerived

Derived1

base

num1

10

num2

20

Derived2

base

num1

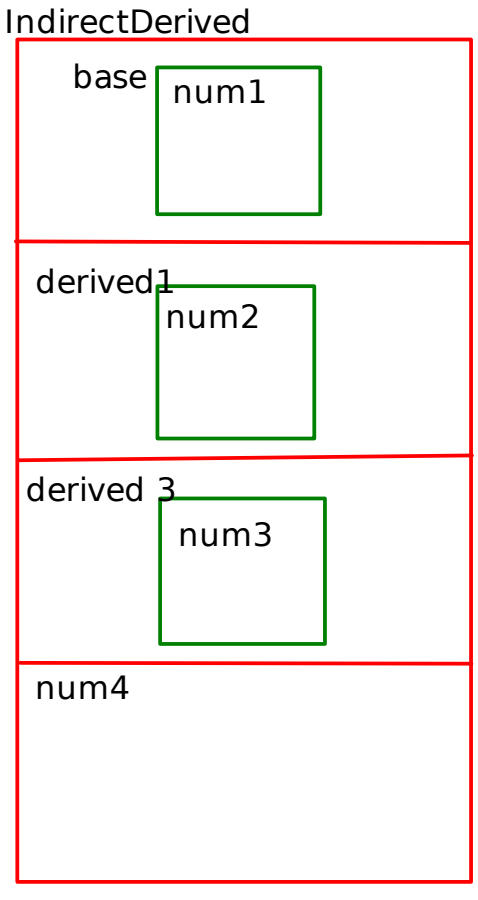
10

num3

30

num4

40


IndirectDerived
base
num1
derived1
num2
derived 3
num3
num4