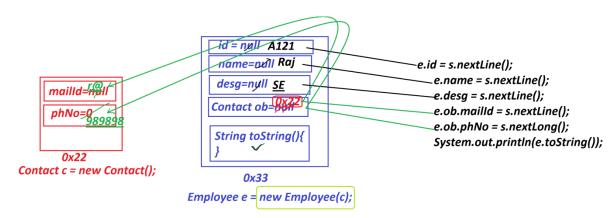
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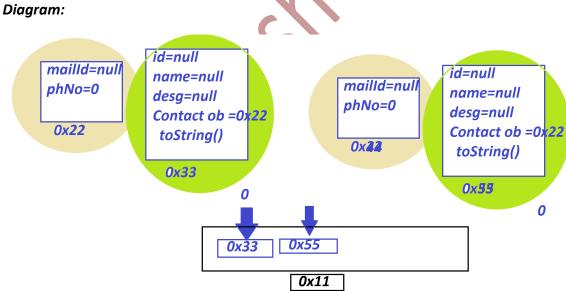
Diagram:



Assignment:(Solution)

Update above program by reading and display multiple employee details

using array.



Employee [n];

Contact.java

package test;

```
public class Contact {
    public String mailId;
     public long phNo;
}
Employee.java
package test;
public class Employee {
    public String id, name, desg;
    public Contact ob; // Reference variable of Contact
    public Employee(Contact c) {
      ob = c;
    public String toString() {
      return id+"\t"+name+"\t"+desg+"\t"+ob.mailId+
}
DemoRef2.java(MainClass)
package maccess;
import test.*;
import java.util.*;
public class DemoRef2 {
      public static void main(String[] args) {
   Scanner s = new Scanner(System.in);
   System.out.println("Enter the number of employees:");
   int n = Integer.parseInt(s.nextLine());
   Employee a[] = new Employee[n];
   System.out.println("Enter "+n+" employee details:");
   for(int i=0;i<a.length;i++)</pre>
   {
```

```
System.out.println("====Employee-"+(i+1)+" Details====");
       a[i] = new Employee(new Contact());
       System.out.println("Enter the id:");
       a[i].id = s.nextLine();
       System.out.println("Enter the name:");
       a[i].name = s.nextLine();
       System.out.println("Enter the desg:");
       a[i].desg = s.nextLine();
       System.out.println("Enter the MailId:");
       a[i].ob.mailId = s.nextLine();
       System.out.println("Enter the PhNo:");
       a[i].ob.phNo = Long.parseLong(s.nextLine());
    }//end of loop
    System.out.println("====Display Employee details===");
    for(Employee e : a)
    {
       System.out.println(e.toString());
    }//end of loop
}
o/p:
Enter the number of employees:
3
```

Enter 3 employee details:
====Employee-1 Details====
Enter the id:
A121
Enter the name:
Raj
Enter the desg:
SE
Enter the Mailld:
r@gmail.com
Enter the PhNo:
9898981234
====Employee-2 Details====
Enter the id:
A001
Enter the name:
Ram
Enter the desg:
TE
Enter the Mailld:
rm@gmail.com
Enter the PhNo:
7878781234
====Employee-3 Details====

Enter the id:
A890
Enter the name:
Alx
Enter the desg:
ME
Enter the MailId:
a@gmailcom
Enter the PhNo:
6767671234
====Display Employee details===
A121 Raj SE r@gmail.com 9898981234
A001 Ram TE rm@gmail.com 7878781234
A890 Alx ME a@gmailcom 6767671234
######################################
=>Address(hNo,sName,city,pinCode)
=>Salary(bSal,totSal)
Note:
=>References Concept is also known as "HAS-A" relation,because one object
"HAS-A" reference of another object.
=>References concept is also known as "Object Inter Linking process".

*imp

2.Inheritance in Java:

=>The process of extracting the features from Parent to child is known as

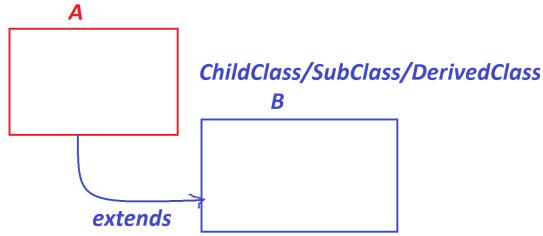
Inheritance process.(General meaning)

=>The process of interlinking classes with "extends" keyword is known as

Inheritance process.(Java Language)

Diagram:

ParentClass/SuperClass/BaseClass



```
syntax:
class A
{
//PClass_body
```

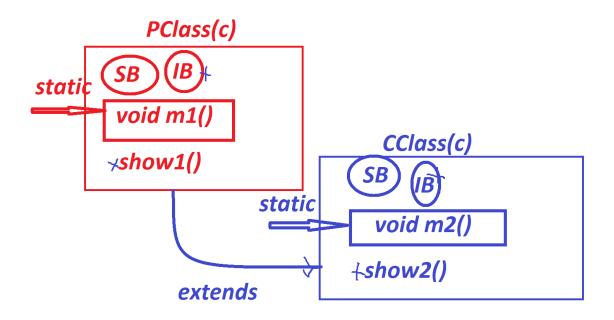


Diagram:

```
PClass.java
```

```
package test;
public class PClass {
    static {
     System.out.println("**PClass Static Block**");
    }
    {
     System.out.println("**PClass Instance Block**");
    public static void m1() {
     System.out.println("**PClass static method m1
    public void show1() {
     System.out.println("**PClass Instance method show1()**");
}
CClass.java
package test;
public class CClass extends PClass (
      static {
       System.out.println("**CClass Static Block**");
      ſ
          System.out.println("**CClass Instance Block**");
      public static void m2() {
          System.out.println("**CClass static method m2()**");
      public void show2() {
          System.out.println("**CClass Instance method
show2()**");
}
DemoInheritance1.java(MainClass)
package maccess;
```

```
import test.*;
public class DemoInheritance1 {
     public static void main(String[] args) {
       CClass ob = new CClass();
       CClass.m1();
       CClass.m2();
       ob.show1();
       ob.show2();
}
o/p:
**PClass Static Block**
**CClass Static Block**
**PClass Instance Block**
**CClass Instance Block**
**PClass static method m1()**
**CClass static method m2()**
**PClass Instance method show1()**
**CClass Instance method show2()*
```