**Inheritance**:

All methods/variables of parent class can be inherited to the child class and those methods and variables can be used in the child class by using a keyword called extends in child class.

**Example**:

**public** **class** Inheritence\_GrandSon **extends** Inheritance\_Son{

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Inheritence\_GrandSon gs=**new** Inheritence\_GrandSon();

gs.activities();

gs.city();

gs.country();

}

}

**Interface**:

* Interface contains methods or signature but does not contain definitions/implementations
* A class implement the methods in interface and all methods in interface should be **public** modifier
* We use implements keyword to implement the interface.
* If the return type is an interface, then we call it as Run time polymorphism
* Interface is a client agreement between the actual method and class implementation

**Sample Interface:**

**package** javaCocepts;

**public** **interface** Interface\_Banking {

**public** **void** payEMI();

**public** **void** depositeAmount();

**public** **void** checkCreditScore();

}

**Class Implementing methods:**

**public** **class** ClassImplementingMethods **implements** Interface\_Banking,Interface\_HealthCare{

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

ClassImplementingMethods m=**new** ClassImplementingMethods();

m.checkCreditScore();

m.depositeAmount();

m.payEMI();

m.onyToThisMethod();

Interface\_Banking m1=**new** ClassImplementingMethods();//Runtime polymorphism

m1.payEMI();

m1.checkCreditScore();

m1.depositeAmount();

Interface\_HealthCare m2=**new** ClassImplementingMethods();

m2.candidateProfile();

m2.insurance();

}

**public** **void** payEMI() {

// **TODO** Auto-generated method stub

System.***out***.println("This is to pay EMI");

}

**public** **void** depositeAmount() {

// **TODO** Auto-generated method stub

System.***out***.println("This is to deposite amount");

}

**public** **void** checkCreditScore() {

// **TODO** Auto-generated method stub

System.***out***.println("This is to check credit scrore");

}

**public** **void** onyToThisMethod() {

// **TODO** Auto-generated method stub

System.***out***.println("Only for this method");

}

**public** **void** candidateProfile() {

// **TODO** Auto-generated method stub

System.***out***.println("This is for candidate profile");

}

**public** **void** insurance() {

// **TODO** Auto-generated method stub

System.***out***.println("This is to check insurance");

}

}

**Access Modifiers:**

Public, Private, Default, Protected

**Public**: Methods/Variables Can be accessed in all packages once the object is created for a class/inherited

**Private**: Methods/Variables are accessed only to that particular class in a package. Cannot be accessed to other classes or packages

**Default**: Methods/Variables can be accessed in all classes in that particular package but cannot be accessed in other packages

Eg: void method1(){

}

**Protected**: Can be accessed in that particular package and the inherited classes of other package.

**Exception Handling:**

Try{

Code to execute

}

Catch(Arithmeticexception a){

All arithmetic exceptions  
}

Catch(Exception e){

Any exception. This is parent exception

}

Finally{

This code will execute even in case of exceptions

Deleting cookies or closing the browser

}