

Inheritance

- * The capability of a class to derive property & characteristics from another class.

Human

Private
Public
Prove

```
[String name  
int age  
int weight]
```

public

Parent class
Base class

```
[String name  
int age, weight; salary  
int id]
```

Teacher

public

```
[String name  
int age, weight; fee  
int roll]
```

Child / Derived Student

	external code	within class	Derived class
Public :	✓	✓	✓
Protected :	✗	✓	✓
Private :	✗	✓	✗

Public < Protected < Private

Human

```
Private:
    int a;
Protected:
    int b;
Public:
    int c;

void An() {
    a = 10; ✓
    b = 11; ✓
    c = 12; ✓
}
```

X

~
✓

```
Human Ankit
Ankit . a X
Ankit . b X
Ankit . c ✓
```

class Student : Public Human
childname access modifier
{

}

parent	child	Result
Public	Public	Public
Public	Protected	Protected
Public	Private	Private
Protected	Public	Protected
"	Protected	Protected
"	Private	Private

