



Core Java

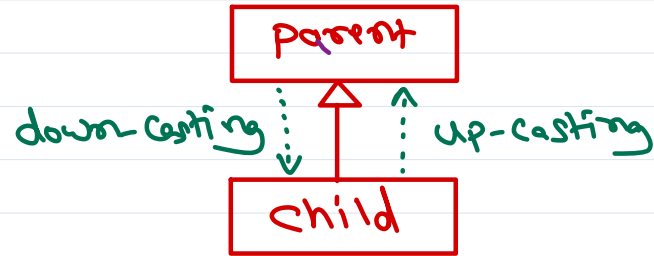
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OOP revision

```
int divide(int a, int b) {  
    =  
    ?  
double divide(int a, int b) {  
    =  
    ?  
    int p = divide(22, 7);  
    double pi = divide(22, 7);  
    divide(22, 7); → ??
```

uml class diag.



OOP

- ① abstraction
- ② encapsulation
- ③ hierarchy
- ④ modularity
- ⑤ typing
- ⑥ concurrency
- ⑦ persistence



Generics

```
void swap (Object a, Object b) {  
    Object t = a;  
    a = b;  
    b = t;  
    Sysout (a + b);  
}
```

```
Integer i1 = 10, i2 = 20;  
Swap (i1, i2);  
  
Employee e1 = ..., e2 = ...;  
Swap (e1, e2);
```

```
ArrayList list = new ArrayList();  
list.add (10);  
list.add (20);  
list.add (30);  
list.add ("40"); // okay  
for (Object ele : list) {  
    Integer e = (Integer) ele; // Class Cast Exception  
    Sysout (e);  
}
```

runtime error





Thank you!

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