

Down Casting

Converting super class to sub class is called down casting

```
A a = new A();
```

```
B b = a; // Type mismatch: cannot convert from A to B
```

```
A a = new A();
```

```
B b = (B)a; // class com.dl.downcasting.A cannot be cast to class com.dl.downcasting.
```

```
b.m1(); // java.lang.ClassCastException
```

```
A a = new B();
```

```
B b = (B) a;
```

```
b.m1(); // M1 Method Parent
```

```
b.m2(); // M2 Method Child
```

Up Casting:

Converting Sub Class to Super Class called as Up Casting

```
A a = new B(); //Polymorphism  
a.m1(); // M1 Method B
```

```
B b = new B(); //Polymorphism  
A aa = b;  
aa.m1(); // M1 Method B
```