POLYMORPHISM

One same – multiple forms is the concept of polymorphism.

Example 1:

Method name is the same but we can apply for different type of arguments(Overloading).

abs(int)

abs(long)

abs(float)

Example 2:

Method signature is same but in parent class one type of implementation and in the child class another type of implementation(Overriding)

Usage of parent reference to hold child object is called Polymorphism.

Parent class reference can be used to hold child object but by using the reference can call only the method available in Parent class and we can’t call child specific methods.

P p = new C(); P --> m1()

p.m1(); C --> m2();

p.m2(); //invalid

But by using child object reference we can call both parent and child class methods.

C c = new C();

c.m1();

c.m2();

When we should go for parent reference to hold child object?