**Specialization**

The process of developing a method which handles only one type of object such method are called as special method and this process is called specialization

* Special method arguments will be always subclass derived datatype.
* In specialization method there is no upcasting so downcasting is

Unnecessary.

**Generalisation**

The process of developing a method which handles multiple type of object such method are called as generalize method and this process is called generalisation.

* Generalisation method arguments will be always super class derived datatype.

Example :

**public** **class** Animal {

**public** **void** move()

{

System.***out***.println("all animals");

}

}

**public** **class** Cat **extends** Animal

{

**public** **void** chase()

{

System.***out***.println(" chase rat.......");

}

}

**public** **class** Lion **extends** Animal

{

**public** **void** hunt()

{

System.***out***.println("hunt animals");

}

}

**public** **class** Circus1 {

**public** **void** show(Lion l) // specialisation

{

l.move();

l.hunt();

}

**public** **void** display(Cat c) // specialization

{

c.move();

c.chase();

}

**public** **void** call (Animal a) // generalisation

{

a.move();

**if** (a **instanceof** Lion)

{

Lion l = (Lion) a;

l.hunt();

}

**else** **if** (a **instanceof** Cat )

{

Cat c = (Cat) a;

c.chase();

}

}

}

**public** **class** mainclass {

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

Circus1 c1 = **new** Circus1();

c1.show(**new** Lion());

c1.display(**new** Cat()); // specialisation calling

c1.call(**new** Lion());

c1.call(**new** Cat()); // generalisation calling

}

}