Instanceof OPERATOR

We can use instanceof operator to check whether the given object is of particular type or not.

Syntax: r instanceof X where

r --> object reference

X --> class | interface name

Example 1:

Thread t1 = **new** Thread();

System.***out***.println(t1 **instanceof** Thread); //true

System.***out***.println(t1 **instanceof** Runnable); //true

System.***out***.println(t1 **instanceof** Object); //true

Thread is object which implements Runnable interface.

Example 2:

To use instanceof operator compulsary there should be some relation between argument types(either child to parent or parent to child or same type) Otherwise we will get compile time error saying inconvertible types.

Eg:

System.***out***.println(t1 **instanceof** String);

//CE incompatible types: java.lang.Thread cannot be converted to java.lang.String

For any class or interface X null instance of X is always false

Eg:

System.***out***.println(**null instanceof** Thread); //false