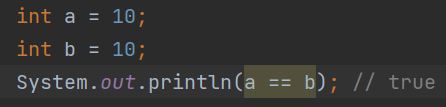
#### **Equality**

#### **When both LHS and RHS values are primitive:**

#### 

#### The actual value of both sides is fetched from the stack memory and compared. It returns true if they both are equal, else false is returned.



== vs equals() in Java:

import java.util.Objects;

public class Books {

private int bookId;

private String bookName;

private int quantityTotal;

Books(int bookId,String bookName,int quantityTotal){

this.bookId = bookId;

this.bookName = bookName;

this.quantityTotal = quantityTotal;

}

@Override

public boolean equals(Object obj)

{

if(this == obj)

return true;

if(!(obj instanceof Books))

return false;

Books book = (Books) obj;

return (

book.bookId == this.bookId && book.bookName.equals(this.bookName) &&

book.quantityTotal == this.quantityTotal

);

}

@Override

public int hashCode()

{

return Objects.*hash*(bookId,bookName, quantityTotal);

}

}

class Main {

public static void main(String[] args) {

Books book1 = new Books(1,"The Secret",5);

Books book2 = new Books(1,"The Secret",5);

Books book3 = new Books(2,"You",6);

System.*out*.println(book1.equals(book2)); // true

System.*out*.println(book1.equals(book3)); // false

System.*out*.println(book1.hashCode()); // 2345677878

System.*out*.println(book2.hashCode());// 2345677878

System.*out*.println(book3.hashCode()); // 567878899

}

}

== vs equals in kotlin :

class Book(val bookId: Int, val bookName: String, val quantity: Int)

fun main() {

val book1 = Book(1,"YOU", 6)

val book2 = Book(1,"YOU", 6)

val book3 = Book(2, "FIGHTER", 8)

println(book1 == book2) //false

println(book2 == book3) //false

println(book1.equals(book2)) //false

println(book1.hashCode()) // 692404036

println(book2.hashCode()) // 1554874502

}

data class Book(val bookId: Int, val bookName: String, val quantity: Int)

fun main() {

val book1 = Book(1,"YOU", 6)

val book2 = Book(1,"YOU", 6)

val book3 = Book(2, "FIGHTER", 8)

println(book1 == book2) // true

println(book2 == book3) //false

println(book1.equals(book2)) //true

println(book1.hashCode()) // 692404036

println(book2.hashCode()) // 692404036

}