Comparators and Equality

```
!=== Is equal to
!== Is not equal to
> Is greater than
< Is lesser than
>= Is greater or equal to
<= Is lesser or equal to

&& AND
|| OR
! NOT</pre>
```

Difference between two equal signs = = and three equal signs = =

Two equal signs = = check equality only while **three equal signs** = = = check equality as well as data types.

```
> var a=1;
 var b="1";
 typeof(a);
 typeof(b);
 if(a===b){
   console.log("Yes");
 }
 else{
   console.log("No");
 }
 No
```

```
> var a=1;
   typeof(a);
    if(a==b){
      console.log("Yes");
     console.log("No");
   Yes
 undefined
 > typeof(a);
 'number'
 > typeof(b);
 < 'string'</pre>
prompt("What is your name?");
prompt("What is their name?");
var loveScore = Math.random()*100;
loveScore = Math.floor(loveScore)+1; //1-100
if(loveScore===100){
alert("Your love score is: "+loveScore+"%. You love each other like Kanye loves Kanye");
}
if(loveScore>70){
  alert("Your love score is: "+loveScore+"%. You are lucky");
}
else{
  alert("Your love score is: "+loveScore+"%");
}
```

```
prompt("What is your name?");
prompt("What is their name?");

var loveScore = Math.random()*100;
loveScore = Math.floor(loveScore)+1; //1-100
if(loveScore==100){
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if(loveScore>70){
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}
else{
    alert("Your love score is: "+loveScore+"%");
}
```

```
> prompt("What is your name?");
    prompt("What is their name?");
    var loveScore = Math.random()*100;
    loveScore = Math.floor(loveScore)+1;
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    if(loveScore==100){
     alert("Your love score is: "+loveScore+"%. You love each other like Kanye loves Kanye");
    if(loveScore>70){
         alert("Your love score is: "+loveScore+"%. You are lucky");
    else{
         alert("Your love score is: "+loveScore+"%");
  undefined
earch Google or type a URL
e 🎇 Maps 👼 News 🌬 Translate
                                            chrome://new-tab-page says
 Console
                            Sources
                                      Netv
                                                                                                        ecoi
                                            Your love score is: 53%. You are lucky
 ▶ O top ▼ O Filter
                                                                                                OK
                                                                                                        ail:
   [Intervention] Slow network is detected. Se
   chrome://resources/roboto/roboto-regular.wo
 Failed to load resource: net::ERR_INTERNET_DISCONNECTED
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☑ Failed to load resource: net::ERR INTERNET DISCONNECTED

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 ♠ crbug/1173575, non-JS module files deprecated.
 > prompt("What is your name?");
   prompt("What is their name?");
   var loveScore = Math.random()*100;
   loveScore = Math.floor(loveScore)+1;
                                      //1-100
   if(loveScore>70){
   alert("Your love score is: "+loveScore+"%. You love each other like Kanye loves Kanye");
   if(loveScore>30 && loveScore<=70){
      alert("Your love score is: "+loveScore+"%. You are lucky");
   else{
      alert("Your love score is: "+loveScore+"%. You go together like oil and water.");
   }
prompt("What is your name?");
prompt("What is their name?");
var loveScore = Math.random()*100;
loveScore = Math.floor(loveScore)+1; //1-100
```

```
if(loveScore>70){
  alert("Your love score is: "+loveScore+"%. You love each other like Kanye loves Kanye");
}
if(loveScore>30 && loveScore<=70){
    alert("Your love score is: "+loveScore+"%. You are lucky");
}
else{
    alert("Your love score is: "+loveScore+"%. You go together like oil and water.");
}</pre>
```

Comparison operators compare two values and give back a boolean value: either true or false. Comparison operators are used in decision making and loops.

Operator	Description	Example
==	Equal to: true if the operands are equal	5==5; //true
!=	Not equal to: true if the operands are not equal	51=5; //false
	Strict equal to: true if the operands are equal and of the same type	5==='5'; //false
!==	Strict not equal to: true if the operands are equal but of different type or not equal at all	5!=='5'; //true
>	Greater than: true if the left operand is greater than the right operand	3>2; //true
>=	Greater than or equal to: true if the left operand is greater than or equal to the right operand	3>=3; //true
<	Less than: [true] if the left operand is less than the right operand	3<2; //false
	Less than or equal to: true if the left operand is less	Section and
<=	Less than or equal to: true if the left operand is less than or equal to the right operand	2<=2; //true