

- Conditional statements
- 2. IF statement
- 3. Variable scope











Si botón pulsado es "expresso" entonces fabrica "expresso"

Condición

Acción



IF statement

SWITCH statement



```
if (condition) {
//code block
//will execute ONLY if condition is true
//more code
```



boolean value

```
if (condition) {
  //code block
  //will execute ONLY if condition is true
}
//more code
```



```
if (condition) {
//code block
//will execute ONLY if condition is true
//more code
```



```
Code before IF statement
//code before IF statement
                                                                                          FALSE
if (condition) {
                                                                           condition?
// IF code block
                                                                                 TRUE
                                                                          IF code block
//code afer IF statement
                                                                     Code after IF statement
```

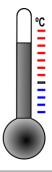


```
boolean isExpresso = ? //true or false
if (isExpresso) {
    System.out.println("Get your expresso, please!");
}

//If isExpresso is true, prints: Get your expressor, please
//If isExpresso is false, no message is printed
```



```
double temperatureInCelsius = -3;
if (temperatureInCelsius < 0) {
    System.out.println("It's very cold. Consider wearing a scarf.");
}
System.out.println("Have a good day!");
//prints:
//It's very cold. Consider wearing a scarf.
// Have a good day!");</pre>
```





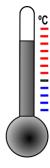
```
if (condition) {
  //code block
  //will execute ONLY if condition is true
}else {
  //code block
  //will execute ONLY if condition is false
}
//more code
```



```
Code before IF statement
//code before IF statement
                                                                                FALSE
                                                                  condition?
if (condition) {
//IF code block
}else {
                                                                       TRUE
//ELSE code block
                                                                                              ELSE code block
                                                                 IF code block
//code after IF statement
                                                             Code after IF statement
```



```
double temperatureInCelsius = 20;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's not that cold. Wear a t-shirt
// Have a good day!");
```





```
double temperatureInCelsius = 20;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's not that cold. Wear a t-shirt
// Have a good day!");
```



```
double temperatureInCelsius = 20;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's not that cold. Wear a t-shirt
// Have a good day!");
```

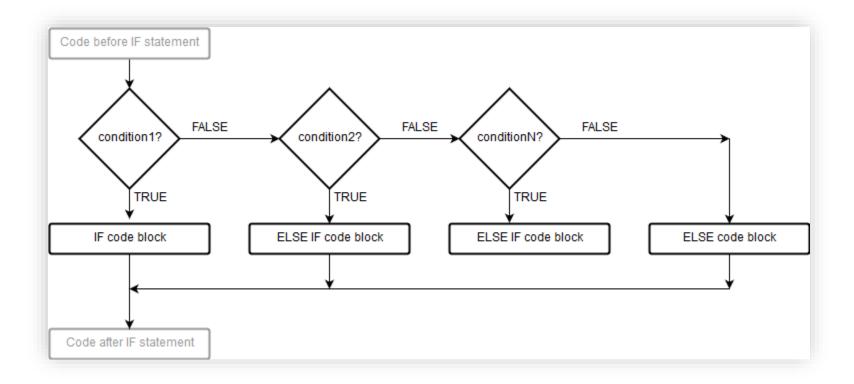


```
if (condition1) {
//code block
//will execute ONLY if condition1 is true
}else if (condition2) {
//code block
//will execute ONLY if condition1 is false and condition2 is true
} else if (conditionN) {
//code block
//will execute ONLY if condition1, condition2 are false and conditionN is true
} else {
//code block
//will execute ONLY if condition1, condition2, conditionN are false
//more code
```



```
if (condition1) {
  //code block
  //will execute ONLY if condition1 is true
}else if (condition2) {
  //code block
  //will execute ONLY if condition1 is false and condition2 is true
}
//more code
```







```
double temperatureInCelsius = 28;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else if (temperatureInCelsius >25) {
 System.out.println("It's really warm. Don't forget to wear sunscreen.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's really warm. Don't forget to wear sunscreen.
// Have a good day!");
```



```
double temperatureInCelsius = 28;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else if (temperatureInCelsius >25) {
 System.out.println("It's really warm. Don't forget to wear sunscreen.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's really warm. Don't forget to wear sunscreen.
// Have a good day!");
```

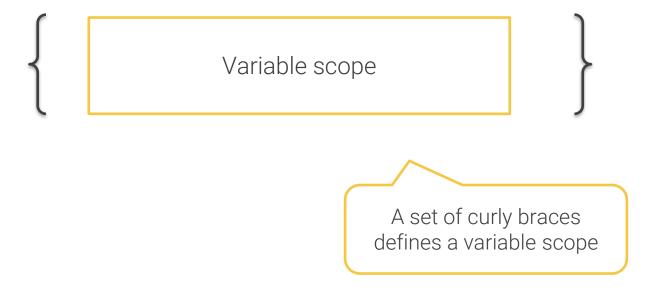


```
double temperatureInCelsius = 28;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else if (temperatureInCelsius >25) {
 System.out.println("It's really warm. Don't forget to wear sunscreen.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's really warm. Don't forget to wear sunscreen.
// Have a good day!");
```



```
double temperatureInCelsius = 28;
if (temperatureInCelsius < 0) {</pre>
 System.out.println("It's very cold. Consider wearing a scarf.");
} else if (temperatureInCelsius >25) {
 System.out.println("It's really warm. Don't forget to wear sunscreen.");
} else {
  System.out.println("It's not that cold. Wear a t-shirt.");
System.out.println("Have a good day!");
//prints:
// It's really warm. Don't forget to wear sunscreen.
// Have a good day!");
```







```
public class Main{
  public static void main(String[] args) {
    double temperatura = 28;
    if (temperatura >25) {
      System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La temperatura ambiente es: 28°C.");
```



```
public class Main{
  public static void main(String[] args) {
    double temperatura = 28;
    if (temperatura >25) {
      System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La temperatura ambiente es: 28°C.");
```



```
public class Main{
  public static void main(String[] args) {
    double temperatura = 28;
    if (temperatura >25) {
      System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
                                                                       Variable scope
                                                                                                              င္မွုမ္များမွ
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La temperatura ambiente es: 28°C.");
```



```
public class Main{
  public static void main(String[] args) {
    double temperatura = 28;
    if (temperatura >25) {
      System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La temperatura ambiente es: 28°C.");
```



```
public class Main{
  public static void main(String[] args) {
    double temperatura= 28;
    if (temperatura >25) {
      double humedad= 50;
      System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
      System.out.println("La humedad relativa es: "+humedad+"%.");
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La humedad relativa es: 50%.
// La temperatura ambiente es: 28°C.");
```



```
public class Main{
  public static void main(String[] args) {
    double temperatura= 28;
    if (temperatura >25) {
      double humedad= 50;
       System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
      System.out.println("La humedad relativa es: "+humedad+"%.");
                                                                                 Variable scope
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
                                                                                                                  <u>°</u>
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La humedad relativa es: 50%.
// La temperatura ambiente es: 28°C.");
```



```
public class Main{
  public static void main(String[] args) {
    double temperatura= 28;
    if (temperatura >25) {
      double humedad= 50;
      System.out.println("Hace calor. No olvides ponerte tus gafas de sol.");
      System.out.println("La humedad relativa es: "+humedad+"%.");
     System.out.println("La temperatura ambiente es: "+temperatura+"ºC.");
     humedad = humedad 10:
//prints:
// Hace calor. No olvides ponerte tus gafas de sol.
// La humedad relativa es: 50%.
// La temperatura ambiente es: 28°C.");
```

"No tengo talentos especiales, pero sí soy profundamente curioso"



Albert Einstein