



Assignment



- *One condition*

1. Using the **if-end condition**, write a **script** that calculates the **square root** ($\sqrt{x}$) of any numbers.
2. Using the **if-end condition**, write a **script** that calculates the $x = \left(\frac{-b}{2a}\right)$.

- *Two conditions*

1. Using the **if-else-end condition**, write a **script** or create a **program** that calculates the result of $y = e^x + x$ in case $x < 1$, otherwise the result of $y = x^2 - \ln x$.
2. Using the **if-else-end condition**, write a **script** or create a **program** that calculates the result of $y = e^x$ in case $x < 1$, otherwise the result of $y = \ln x$.
3. Using the **if-else-end condition**, write a **script** or create a **program** in order to compare two given numbers a and b .

- *Many conditions*

1. Using the **if-elseif-else-end loop**, write a **script** or create a **program** that calculates the roots of $ax^2 + bx + c = 0$.

$a =$	1	1	4	4
$b =$	5	1	8	8
$c =$	4	4	2	4



2. Using the **if-elseif-else-end loop**, write a **script** or create a **program** that compare the number given with "0".

3. Using the **if-elseif-else-end loop**, write a **script** or create a **program** that calculate the surface of rectangle in case $a > b$, and surface of square in case $a = b$, otherwise, the surface of triangle.

4. Using the **if-elseif-else-end loop**, write a **script** or create a **program** that can display the first seven wilaya by entering the corresponding number

Wilya	Adrar	Chlef	Laghouat	Oum el bouaghi	Batna	Bejaia	Biskra
Number	01	02	03	04	05	06	07

5. Using the **if-elseif-else-end loop**, write a **script** or create a **program** that can show the classification based on the score input.

Classification	Excellent	Very good	Good	Average	Fair	Poor	Very poor
Score	96-100	86-95	76-85	66-75	56-65	36-55	0-35

6. Using the **if-elseif-else-end loop**, write a **program in script/editor** that display the different first seven months type of the oscillation damped **heavy damper**, **critical damped**, and **light damping** based on the input delta.