	Descripció  Comencem a familiaritzar-nos amb Python mitjançant l'entorn de treball "Jupyter Notebook" !!! Comencem
	amb uns quants exercicis bàsics  Nivell 1
	Exercici 1
	Instal·la el programa Anaconda amb Python 3, i Jupyter Notebook.  Exercici 2
	Utilitzant Jupyter Notebook executa alguns càlculs senzills, a la vegada que et familiaritzes amb el llenguatge Markdown.
In [11]:	Variables  # declarar variables x = 2
	y = 5 xy = 'Hey' print x+y, xy
In [ ]:	<pre># assignar diverses variables amb el mateix valor. x = y = 1 print x,y</pre>
	Operadores
	Operadores aritméticos  Símbol Tasca realitzada  + Adición
	- Resta / División
	<ul><li>% Módulo</li><li>* Multiplicación</li><li>// División piso</li></ul>
In [28]:	** Potenciación
	x = 2+3 print(x) 5
In [29]:	<pre>x = 2-1 print(x)</pre>
In [31]:	1  x = 1*2 print(x)
In [32]:	2  # Si tanta al numeradar como al denominador con números enteros, pero al recultado es
	<pre># Si tanto el numerador como el denominador son números enteros, pero el resultado es x = 1/2 print(x)</pre>
In [33]:	#Para obtener la respuesta correcta debemos cambiar el numerador o el denominador a to x = 1/2.0
	print(x) 0.5
In [34]:	x = 15%10 print(x)
In [35]:	<pre>5 x = 2.8//2.0 print(x)</pre>
	1.0 Operadores relacionales
	Operador         Descripción           ==         Devuelve         True si ambos operandos son iguales
	<ul> <li>! = Devuelve True si ambos operandos no son iguales</li> <li>&lt; Devuelve True si el operador de la derecha es mayor que el operador de la izquierda</li> <li>&gt; Devuelve True si el operador de la izquierda es mayor que el operador de la derecha</li> </ul>
	<ul> <li>Devuelve True si el operador de la derecha es mayor o igual que el operador de la izquierda</li> <li>Devuelve True si el operador de la izquierda es mayor o igual que el operador de la derecha</li> </ul>
In [63]:	12 == 3 #False
Out[63]: In [64]:	False  12 != 3 #True
Out[64]:	True
<pre>In [65]: Out[65]:</pre>	12 < 3 #False False
In [66]:	12 > 3 #True
Out[66]: In [67]:	True  12 >= 3 #True
Out[67]:	True
<pre>In [68]: Out[68]:</pre>	12 <= 3 #False False
	Operadores lógicos  Operador Uso Descripción
	and a and b Devuelve True si ambos operandos son <b>True</b> or a or b Devuelve True si alguno de los operandos es <b>True</b>
In [59]:	not not a Devuelve True si alguno de los operandos <b>False</b> $a = \mathbf{True}$
	<pre>b = False print(a and b) #False</pre> False
In [60]:	<pre>print(a or b) #True</pre> True
In [69]:	<pre>print(not a) #False print(not b) #True</pre>
	False True
	Exercici 3  Prova de crear títols, llistes, canviar l'estil de la lletra o afegir imatges dins del Notebook.
	<ul> <li>Python es un lenguaje interpretado, en contraste con Java y C, que son lenguajes compilados.</li> <li>Esto significa que podemos escribir declaraciones en el intérprete y se ejecutan inmediatamente.</li> </ul>
	<ul> <li>Los grupos de declaraciones se ejecutan todos uno tras otro</li> <li>Tipos de variables</li> </ul>
	<ol> <li>int</li> <li>str</li> <li>float</li> </ol>
In [ ]:	4. bool type(1)
Out[]:	int
In [ ]: Out[ ]:	type('hello') str
In [ ]:	type(2.5)
Out[ ]: In [ ]:	type(True)
Out[ ]:	bool
	Nivell 2 Exercici 1
	Exporta el Notebook com a pdf i com a html.
	Nivell 3 Exercici 1
In [2]:	Instal·la Nbextensions al Notebook de Jupyter.
	<pre>!pip install nbconvert[webpdf]  Requirement already satisfied: nbconvert[webpdf] in /home/leo/.local/lib/python3.8/sit e-packages (6.0.7)</pre>
	Requirement already satisfied: jupyter-core in /home/leo/.local/lib/python3.8/site-pac kages (from nbconvert[webpdf]) (4.7.1) Requirement already satisfied: pygments>=2.4.1 in /home/leo/.local/lib/python3.8/site-packages (from nbconvert[webpdf]) (2.8.0) Requirement already satisfied: pandocfilters>=1.4.1 in /home/leo/.local/lib/python3.8/
	site-packages (from nbconvert[webpdf]) (1.4.3) Requirement already satisfied: nbformat>=4.4 in /home/leo/.local/lib/python3.8/site-packages (from nbconvert[webpdf]) (5.1.2) Requirement already satisfied: nbclient<0.6.0,>=0.5.0 in /home/leo/.local/lib/python3.
	8/site-packages (from nbconvert[webpdf]) (0.5.2) Requirement already satisfied: defusedxml in /home/leo/.local/lib/python3.8/site-packa ges (from nbconvert[webpdf]) (0.6.0) Requirement already satisfied: testpath in /home/leo/.local/lib/python3.8/site-package s (from nbconvert[webpdf]) (0.4.4)
	Requirement already satisfied: jupyterlab-pygments in /home/leo/.local/lib/python3.8/s ite-packages (from nbconvert[webpdf]) (0.1.2) Requirement already satisfied: entrypoints>=0.2.2 in /home/leo/anaconda3/lib/python3. 8/site-packages (from nbconvert[webpdf]) (0.3)
	Requirement already satisfied: bleach in /home/leo/.local/lib/python3.8/site-packages (from nbconvert[webpdf]) (3.3.0) Requirement already satisfied: traitlets>=4.2 in /home/leo/.local/lib/python3.8/site-p ackages (from nbconvert[webpdf]) (5.0.5)
	Requirement already satisfied: jinja2>=2.4 in /home/leo/.local/lib/python3.8/site-pack ages (from nbconvert[webpdf]) (2.11.3) Requirement already satisfied: mistune<2,>=0.8.1 in /home/leo/.local/lib/python3.8/sit e-packages (from nbconvert[webpdf]) (0.8.4) Collecting pyppeteer==0.2.2
	Downloading pyppeteer-0.2.2-py3-none-any.whl (145 kB)
	Collecting websockets<9.0,>=8.1  Downloading websockets-8.1-cp38-cp38-manylinux2010_x86_64.whl (78 kB)
	Requirement already satisfied: tqdm<5.0.0,>=4.42.1 in /home/leo/anaconda3/lib/python3. 8/site-packages (from pyppeteer==0.2.2->nbconvert[webpdf]) (4.59.0) Requirement already satisfied: appdirs<2.0.0,>=1.4.3 in /home/leo/anaconda3/lib/python 3.8/site-packages (from pyppeteer==0.2.2->nbconvert[webpdf]) (1.4.4)
	Requirement already satisfied: MarkupSafe>=0.23 in /home/leo/anaconda3/lib/python3.8/s ite-packages (from jinja2>=2.4->nbconvert[webpdf]) (1.1.1) Requirement already satisfied: jupyter-client>=6.1.5 in /home/leo/.local/lib/python3. 8/site-packages (from nbclient<0.6.0,>=0.5.0->nbconvert[webpdf]) (6.1.11)
	Requirement already satisfied: async-generator in /home/leo/.local/lib/python3.8/site-packages (from nbclient<0.6.0,>=0.5.0->nbconvert[webpdf]) (1.10) Requirement already satisfied: nest-asyncio in /home/leo/.local/lib/python3.8/site-packages (from nbclient<0.6.0,>=0.5.0->nbconvert[webpdf]) (1.5.1)
	Requirement already satisfied: python-dateutil>=2.1 in /home/leo/anaconda3/lib/python 3.8/site-packages (from jupyter-client>=6.1.5->nbclient<0.6.0,>=0.5.0->nbconvert[webpd f]) (2.8.1)  Requirement already satisfied: pyzmq>=13 in /home/leo/.local/lib/python3.8/site-packag es (from jupyter-client>=6.1.5->nbclient<0.6.0,>=0.5.0->nbconvert[webpdf]) (22.0.3)
	Requirement already satisfied: tornado>=4.1 in /home/leo/.local/lib/python3.8/site-pac kages (from jupyter-client>=6.1.5->nbclient<0.6.0,>=0.5.0->nbconvert[webpdf]) (6.1) Requirement already satisfied: ipython-genutils in /home/leo/.local/lib/python3.8/site-packages (from nbformat>=4.4->nbconvert[webpdf]) (0.2.0)
	Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in /home/leo/.local/lib/python 3.8/site-packages (from nbformat>=4.4->nbconvert[webpdf]) (3.2.0) Requirement already satisfied: six>=1.11.0 in /home/leo/anaconda3/lib/python3.8/site-p ackages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert[webpdf]) (1.15.0) Requirement already satisfied: attrs>=17.4.0 in /home/leo/.local/lib/python3.8/site-pa
	<pre>ckages (from jsonschema!=2.5.0,&gt;=2.4-&gt;nbformat&gt;=4.4-&gt;nbconvert[webpdf]) (20.3.0) Requirement already satisfied: pyrsistent&gt;=0.14.0 in /home/leo/.local/lib/python3.8/si te-packages (from jsonschema!=2.5.0,&gt;=2.4-&gt;nbformat&gt;=4.4-&gt;nbconvert[webpdf]) (0.17.3) Requirement already satisfied: setuptools in /home/leo/anaconda3/lib/python3.8/site-pa</pre>
	<pre>ckages (from jsonschema!=2.5.0,&gt;=2.4-&gt;nbformat&gt;=4.4-&gt;nbconvert[webpdf]) (52.0.0.post20 210125) Requirement already satisfied: webencodings in /home/leo/.local/lib/python3.8/site-pac kages (from bleach-&gt;nbconvert[webpdf]) (0.5.1)</pre>
	Requirement already satisfied: packaging in /home/leo/.local/lib/python3.8/site-packag es (from bleach->nbconvert[webpdf]) (20.9) Requirement already satisfied: pyparsing>=2.0.2 in /home/leo/.local/lib/python3.8/site-packages (from packaging->bleach->nbconvert[webpdf]) (2.4.7) Installing collected packages: websockets, pyee, pyppeteer
	Successfully installed pyee-7.0.4 pyppeteer-0.2.2 websockets-8.1