

S02T01

November 4, 2021

1 Nivell 1

1.1 Exercici 2

Utilitzant Jupyter Notebook executa alguns càlculs senzills, a la vegada que et familiaritzes amb el llenguatge Markdown.

```
[1]: print("suma 5+5=",5+5)
      print("resta 10-5=",0-5)
      print("multiplicacion 5*5=",5*5)
      print("division 10/5=",10/5)
      print("modulo 11%6=",11%6)
      print("exponencial 4^2 =",4**2)
      print("convinacion interes 100*(1.5)**7=", (100*(1.5)**7))
```

```
suma 5+5= 10
resta 10-5= -5
multiplicacion 5*5= 25
division 10/5= 2.0
modulo 11%6= 5
exponencial 4^2 = 16
convinacion interes 100*(1.5)**7= 1708.59375
```

1.2 Exercici 3

Prova de crear títols, llistes, canviar l'estil de la lletra o afegir imatges dins del Notebook.

Això es un text que forma un paragraf. Donarem enfasis al text amb **bold** i **bold**, o marcarem amb *italic* i *italic* o be taxade ~~Scratch~~.

- Aquí es la primera entrada de una llista
- Aquesta llista es de punts es a dir
 - es una llista no ordinal
- 1. també podem crear una llista numeral
- 2. la segona entrada ordenada
 - 1. sub entrada
- ☒ tarea n1
- ☐ tarea n2

```
var s = "codigo java script";
alert(s);
```

cavecera	cavecera	cavecera
A	B	C
X	Y	Z

formula matemtica \sqrt{k}



2 Nivell 2

2.1 Exercici 1

Exporta el Notebook com a pdf i com a html.

3 Nivell 3

3.1 Exercici 1

Instal·la Nbextensions al Notebook de Jupyter.

```
[2]: ! pip install jupyter_contrib_nbextensions
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: jupyter_contrib_nbextensions in
/home/marcr/.local/lib/python3.10/site-packages (0.5.1)
Requirement already satisfied: jupyter-contrib-core>=0.3.3 in
/home/marcr/.local/lib/python3.10/site-packages (from
jupyter_contrib_nbextensions) (0.3.3)
Requirement already satisfied: traitlets>=4.1 in
/home/marcr/.local/lib/python3.10/site-packages (from
jupyter_contrib_nbextensions) (5.1.1)
Requirement already satisfied: jupyter-highlight-selected-word>=0.1.1 in
/home/marcr/.local/lib/python3.10/site-packages (from
jupyter_contrib_nbextensions) (0.2.0)
Requirement already satisfied: tornado in
```

/home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (6.1)
 Requirement already satisfied: jupyter-nbextensions-configurator>=0.4.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (0.4.1)
 Requirement already satisfied: jupyter-core in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (4.9.1)
 Requirement already satisfied: jupyter-latex-envs>=1.3.8 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (1.4.6)
 Requirement already satisfied: pyyaml in /home/marcr/.local/lib/python3.10/site-
 packages (from jupyter_contrib_nbextensions) (6.0)
 Requirement already satisfied: nbconvert>=4.2 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (6.2.0)
 Requirement already satisfied: notebook>=4.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (6.4.5)
 Requirement already satisfied: ipython-genutils in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (0.2.0)
 Requirement already satisfied: lxml in /usr/lib64/python3.10/site-packages (from
 jupyter_contrib_nbextensions) (4.6.3)
 Requirement already satisfied: setuptools in /usr/lib/python3.10/site-packages
 (from jupyter-contrib-core>=0.3.3->jupyter_contrib_nbextensions) (57.4.0)
 Requirement already satisfied: ipython in
 /home/marcr/.local/lib/python3.10/site-packages (from jupyter-latex-
 envs>=1.3.8->jupyter_contrib_nbextensions) (7.29.0)
 Requirement already satisfied: nbclient<0.6.0,>=0.5.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (0.5.4)
 Requirement already satisfied: pygments>=2.4.1 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (2.10.0)
 Requirement already satisfied: mistune<2,>=0.8.1 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (0.8.4)
 Requirement already satisfied: jupyterlab-pygments in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (0.1.2)
 Requirement already satisfied: nbformat>=4.4 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (5.1.3)
 Requirement already satisfied: bleach in /home/marcr/.local/lib/python3.10/site-
 packages (from nbconvert>=4.2->jupyter_contrib_nbextensions) (4.1.0)
 Requirement already satisfied: pandocfilters>=1.4.1 in
 /home/marcr/.local/lib/python3.10/site-packages (from

nbconvert>=4.2->jupyter_contrib_nbextensions) (1.5.0)
 Requirement already satisfied: testpath in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (0.5.0)
 Requirement already satisfied: jinja2>=2.4 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (3.0.2)
 Requirement already satisfied: defusedxml in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (0.7.1)
 Requirement already satisfied: entrypoints>=0.2.2 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbconvert>=4.2->jupyter_contrib_nbextensions) (0.3)
 Requirement already satisfied: MarkupSafe>=2.0 in /usr/lib64/python3.10/site-
 packages (from jinja2>=2.4->nbconvert>=4.2->jupyter_contrib_nbextensions)
 (2.0.0)
 Requirement already satisfied: nest-asyncio in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbclient<0.6.0,>=0.5.0->nbconvert>=4.2->jupyter_contrib_nbextensions) (1.5.1)
 Requirement already satisfied: jupyter-client>=6.1.5 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbclient<0.6.0,>=0.5.0->nbconvert>=4.2->jupyter_contrib_nbextensions) (7.0.6)
 Requirement already satisfied: pyzmq>=13 in
 /home/marcr/.local/lib/python3.10/site-packages (from jupyter-client>=6.1.5-
 >nbclient<0.6.0,>=0.5.0->nbconvert>=4.2->jupyter_contrib_nbextensions) (22.3.0)
 Requirement already satisfied: python-dateutil>=2.1 in /usr/lib/python3.10/site-
 packages (from jupyter-client>=6.1.5->nbclient<0.6.0,>=0.5.0->nbconvert>=4.2-
 >jupyter_contrib_nbextensions) (2.8.1)
 Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 nbformat>=4.4->nbconvert>=4.2->jupyter_contrib_nbextensions) (4.1.2)
 Requirement already satisfied: attrs>=17.4.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from jsonschema!=2.5.0,>=2.4-
 >nbformat>=4.4->nbconvert>=4.2->jupyter_contrib_nbextensions) (21.2.0)
 Requirement already satisfied: pyparsing!=0.17.0,!0.17.1,!0.17.2,>=0.14.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from jsonschema!=2.5.0,>=2.4-
 >nbformat>=4.4->nbconvert>=4.2->jupyter_contrib_nbextensions) (0.18.0)
 Requirement already satisfied: argon2-cffi in
 /home/marcr/.local/lib/python3.10/site-packages (from
 notebook>=4.0->jupyter_contrib_nbextensions) (21.1.0)
 Requirement already satisfied: terminado>=0.8.3 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 notebook>=4.0->jupyter_contrib_nbextensions) (0.12.1)
 Requirement already satisfied: Send2Trash>=1.5.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 notebook>=4.0->jupyter_contrib_nbextensions) (1.8.0)
 Requirement already satisfied: ipykernel in
 /home/marcr/.local/lib/python3.10/site-packages (from

notebook>=4.0->jupyter_contrib_nbextensions) (6.5.0)
 Requirement already satisfied: prometheus-client in
 /home/marcr/.local/lib/python3.10/site-packages (from
 notebook>=4.0->jupyter_contrib_nbextensions) (0.12.0)
 Requirement already satisfied: six>=1.5 in /usr/lib/python3.10/site-packages
 (from python-dateutil>=2.1->jupyter-client>=6.1.5->nbclient<0.6.0,>=0.5.0-
 >nbconvert>=4.2->jupyter_contrib_nbextensions) (1.16.0)
 Requirement already satisfied: ptyprocess in /usr/lib/python3.10/site-packages
 (from terminado>=0.8.3->notebook>=4.0->jupyter_contrib_nbextensions) (0.6.0)
 Requirement already satisfied: cffi>=1.0.0 in /usr/lib64/python3.10/site-
 packages (from argon2-cffi->notebook>=4.0->jupyter_contrib_nbextensions)
 (1.14.6)
 Requirement already satisfied: pycparser in /usr/lib/python3.10/site-packages
 (from cffi>=1.0.0->argon2-cffi->notebook>=4.0->jupyter_contrib_nbextensions)
 (2.20)
 Requirement already satisfied: webencodings in
 /home/marcr/.local/lib/python3.10/site-packages (from
 bleach->nbconvert>=4.2->jupyter_contrib_nbextensions) (0.5.1)
 Requirement already satisfied: packaging in /usr/lib/python3.10/site-packages
 (from bleach->nbconvert>=4.2->jupyter_contrib_nbextensions) (21.0)
 Requirement already satisfied: debugpy<2.0,>=1.0.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 ipykernel->notebook>=4.0->jupyter_contrib_nbextensions) (1.5.1)
 Requirement already satisfied: matplotlib-inline<0.2.0,>=0.1.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 ipykernel->notebook>=4.0->jupyter_contrib_nbextensions) (0.1.3)
 Requirement already satisfied: decorator in /usr/lib/python3.10/site-packages
 (from ipython->jupyter-latex-envs>=1.3.8->jupyter_contrib_nbextensions) (5.0.9)
 Requirement already satisfied: jedi>=0.16 in
 /home/marcr/.local/lib/python3.10/site-packages (from ipython->jupyter-latex-
 envs>=1.3.8->jupyter_contrib_nbextensions) (0.18.0)
 Requirement already satisfied: prompt-toolkit!=3.0.0,!>=3.0.1,<3.1.0,>=2.0.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from ipython->jupyter-latex-
 envs>=1.3.8->jupyter_contrib_nbextensions) (3.0.21)
 Requirement already satisfied: pickleshare in
 /home/marcr/.local/lib/python3.10/site-packages (from ipython->jupyter-latex-
 envs>=1.3.8->jupyter_contrib_nbextensions) (0.7.5)
 Requirement already satisfied: backcall in
 /home/marcr/.local/lib/python3.10/site-packages (from ipython->jupyter-latex-
 envs>=1.3.8->jupyter_contrib_nbextensions) (0.2.0)
 Requirement already satisfied: pexpect>4.3 in /usr/lib/python3.10/site-packages
 (from ipython->jupyter-latex-envs>=1.3.8->jupyter_contrib_nbextensions) (4.8.0)
 Requirement already satisfied: parso<0.9.0,>=0.8.0 in
 /home/marcr/.local/lib/python3.10/site-packages (from
 jedi>=0.16->ipython->jupyter-latex-envs>=1.3.8->jupyter_contrib_nbextensions)
 (0.8.2)
 Requirement already satisfied: wcwidth in
 /home/marcr/.local/lib/python3.10/site-packages (from prompt-

```
toolkit!=3.0.0,!3.0.1,<3.1.0,>=2.0.0->ipython->jupyter-latex-  
envs>=1.3.8->jupyter_contrib_nbextensions) (0.2.5)  
Requirement already satisfied: pyparsing>=2.0.2 in /usr/lib/python3.10/site-  
packages (from packaging->bleach->nbconvert>=4.2->jupyter_contrib_nbextensions)  
(2.4.7)  
Requirement already satisfied: ply==3.11 in /usr/lib/python3.10/site-packages  
(from pycparser->cffi>=1.0.0->argon2-cffi->notebook>=4.0-  
>jupyter_contrib_nbextensions) (3.11)
```