

El número de serie del volumen es: 42F4-F7F1

Directorio de C:\Users\PC\launchxmagh

```

08/02/2022  01:41 p. m.    <DIR>          .
08/02/2022  01:41 p. m.    <DIR>          ..
08/02/2022  01:15 p. m.    <DIR>          .ipynb_checkpoints
07/02/2022  08:52 p. m.    <DIR>          CursoIntroPython-main
07/02/2022  08:51 p. m.           1,056,239 CursoIntroPython-main.zip
07/02/2022  09:43 p. m.           11,548 Ejercicio_1.ipynb
07/02/2022  09:51 p. m.           7,555 Ejercicio_2.ipynb
08/02/2022  01:40 p. m.    <DIR>          env
08/02/2022  01:14 p. m.           2,011 Programas.ipynb
07/02/2022  08:56 p. m.           24 ship-manual.ipynb
08/02/2022  01:41 p. m.    <DIR>          tutorial
08/02/2022  01:17 p. m.           588 Untitled.ipynb
          6 archivos           1,077,965 bytes
          6 dirs  592,440,721,408 bytes libres
  
```

C:\Users\PC\launchxmagh>cd tutorial

C:\Users\PC\launchxmagh\tutorial>Scripts\activate.bat

(tutorial) C:\Users\PC\launchxmagh\tutorial>deactivate.bat

C:\Users\PC\launchxmagh\tutorial>cd ..

C:\Users\PC\launchxmagh>cd env

C:\Users\PC\launchxmagh\env>cd Scripts\activate.bat

El nombre del directorio no es válido.

C:\Users\PC\launchxmagh\env>cd Scripts

C:\Users\PC\launchxmagh\env\Scripts>activate.bat

(env) C:\Users\PC\launchxmagh\env\Scripts>

Disco local (C:) > Usuarios > PC > launchxmagh

Nombre	Fecha de modificación	Tipo	Tamaño
.ipynb_checkpoints	08/02/2022 07:54 p. m.	Carpeta de...	
CursolntroPython-main	07/02/2022 08:52 p. m.	Carpeta de...	
env	08/02/2022 01:40 p. m.	Carpeta de...	
tutorial	08/02/2022 01:41 p. m.	Carpeta de...	
CursolntroPython-main	07/02/2022 08:51 p. m.	Archivo W...	1,032 KB
Ejercicio_1	08/02/2022 08:25 p. m.	Archivo de...	12 KB
Ejercicio_2	07/02/2022 09:51 p. m.	Archivo de...	8 KB
env1	08/02/2022 08:30 p. m.	Archivo P...	20 KB
env2	08/02/2022 08:30 p. m.	Archivo P...	23 KB
mod0	08/02/2022 08:24 p. m.	Document...	1,665 KB
mod0_1	08/02/2022 08:26 p. m.	Document...	411 KB
mod1	08/02/2022 08:27 p. m.	Document...	83 KB
mod2	08/02/2022 08:29 p. m.	Archivo P...	50 KB
modulo_3	08/02/2022 04:59 p. m.	Archivo de...	5 KB
modulo_4	08/02/2022 05:31 p. m.	Archivo de...	8 KB
modulo_5	08/02/2022 07:53 p. m.	Archivo de...	5 KB
modulo_6	08/02/2022 08:23 p. m.	Archivo de...	5 KB
Programas	08/02/2022 01:14 p. m.	Archivo de...	2 KB
ship-manual	07/02/2022 08:56 p. m.	Archivo de...	1 KB

tutorial

Carpeta de...

Fecha de...

Disco local (C:) > Usuarios > PC > launchxmagh > env



Buscar en e



Nombre




Fecha de modificación


Tipo


Tamaño

4 elementos

 Include

 Lib

 Scripts

 pyvenv

08/02/2022 01:40 p. m.

Carpeta de archivos

08/02/2022 01:40 p. m.

Carpeta de archivos

08/02/2022 01:41 p. m.

Carpeta de archivos

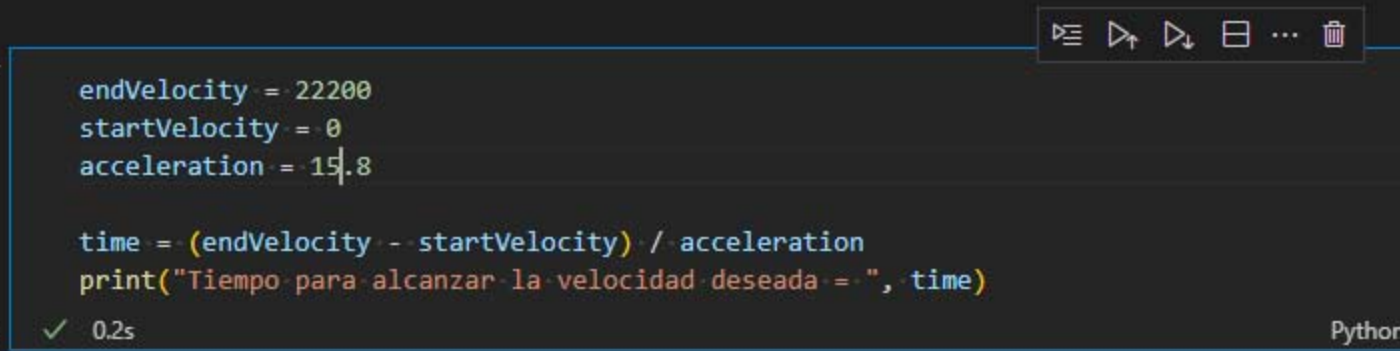
08/02/2022 01:40 p. m.

Archivo de origen ...



Velocidad de la nave

Muestra los segundos necesarios para pasar de 0 a 11200 metros por segundo, dada la aceleración de la nave en metros por segundo.



The image shows a Python IDE window with a dark background. At the top right, there is a toolbar with icons for running, stepping through, and other development actions. The main area contains Python code for calculating the time to reach a certain velocity. Below the code, the output of the last execution is shown, indicating a successful run and the resulting time value.

```
endVelocity = 22200
startVelocity = 0
acceleration = 15.8

time = (endVelocity - startVelocity) / acceleration
print("Tiempo para alcanzar la velocidad deseada = ", time)
```

[14] ✓ 0.2s

Python

... Tiempo para alcanzar la velocidad deseada = 1405.0632911392404

Curso Propedúctico de Python para Launch X - Innovación Virtual.

Material desarrollado con base en los contenidos de MSLearn y la metáfora de LaunchX, traducción e implementación por: Fernanda Ochoa - Learning Producer de LaunchX.

Redes:

- GitHub: [FernandaOchoa](#)
- Twitter: [@imonsh](#)
- Instagram: [fherz8a](#)

✓ Niveles de Oxígeno

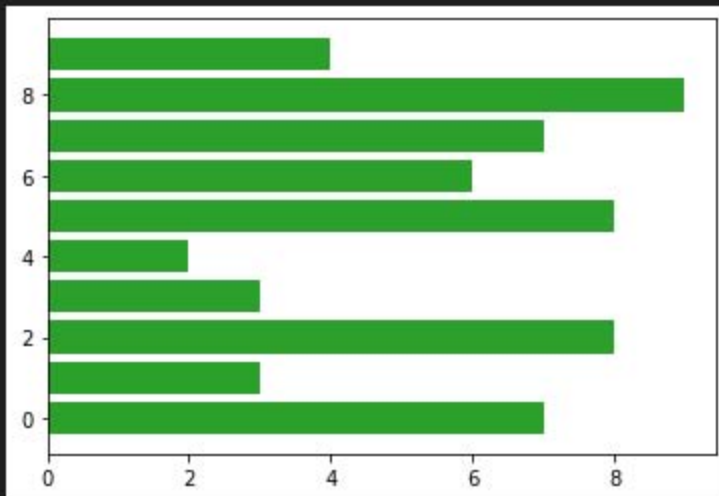
Muestra diez minutos de niveles de oxígeno en tu nave.



```
import numpy as np
import matplotlib.pyplot as plt
data = np.random.default_rng(12345)
oxy_nums = data.integers(low=1, high=10, size=10)
|
plt.barh(range(len(oxy_nums)), oxy_nums, color='tab:green')
plt.show()
```

[11] ✓ 0.1s

Python



```
... Collecting matplotlib
  Downloading matplotlib-3.5.1-cp39-cp39-win_amd64.whl (7.2 MB)
  ----- 7.2/7.2 MB 1.0 MB/s eta 0:00:00
Collecting fonttools>=4.22.0
  Downloading fonttools-4.29.1-py3-none-any.whl (895 kB)
  ----- 895.5/895.5 KB 755.3 kB/s eta 0:00:00
Collecting packaging>=20.0
  Using cached packaging-21.3-py3-none-any.whl (40 kB)
Collecting kiwisolver>=1.0.1
  Downloading kiwisolver-1.3.2-cp39-cp39-win_amd64.whl (52 kB)
  ----- 52.1/52.1 KB 890.8 kB/s eta 0:00:00
Collecting pillow>=6.2.0
  Downloading Pillow-9.0.1-cp39-cp39-win_amd64.whl (3.2 MB)
  ----- 3.2/3.2 MB 306.0 kB/s eta 0:00:00
Requirement already satisfied: python-dateutil>=2.7 in
c:\users\pc\launchxmagh\cursointropython-main\env\lib\site-packages (from matplotlib)
(2.8.2)
Collecting pyparsing>=2.2.1
  Using cached pyparsing-3.0.7-py3-none-any.whl (98 kB)
Collecting cyclер>=0.10
  Downloading cyclер-0.11.0-py3-none-any.whl (6.4 kB)
Collecting numpy>=1.17
  Downloading numpy-1.22.2-cp39-cp39-win_amd64.whl (14.7 MB)
  ----- 14.7/14.7 MB 1.1 MB/s eta 0:00:00
Requirement already satisfied: six>=1.5 in c:\users\pc\launchxmagh\cursointropython-
main\env\lib\site-packages (from python-dateutil>=2.7->matplotlib) (1.16.0)
Installing collected packages: pyparsing, pillow, numpy, kiwisolver, fonttools, cyclер,
packaging, matplotlib
Successfully installed cyclер-0.11.0 fonttools-4.29.1 kiwisolver-1.3.2 matplotlib-3.5.1
numpy-1.22.2 packaging-21.3 pillow-9.0.1 pyparsing-3.0.7
Requirement already satisfied: numpy in c:\users\pc\launchxmagh\cursointropython-
main\env\lib\site-packages (1.22.2)
```



```
import ipywidgets as widgets

ignition = widgets.ToggleButton(
    value=False,
    description='Iniciar Lanzamiento de aprendizaje con INNOVACCION VIRTUAL',
    button_style='success',
    tooltip='Engage your Launch',
    icon='rocket'
)

output = widgets.Output()

display(ignition, output)

def on_value_change(change):
    with output:
        if change['new'] == True:
            print("Nave Iniciada con Miguel Angel Garcia Hernandez!")
        else:
            print("Nave Detenida")

ignition.observe(on_value_change, names='value')
```

✓ 0.4s

Python

🚀 Iniciar Lanzamie...

Nave Iniciada con Miguel Angel Garcia Hernandez!

pip install ipywidgets

[3]

✓ 0.7s

Python

```
... Requirement already satisfied: ipywidgets in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (7.6.5)
Requirement already satisfied: ipykernel>=4.5.1 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(6.9.0)
Requirement already satisfied: ipython-genutils~0.2.0 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(0.2.0)
Requirement already satisfied: ipython>=4.0.0; python_version >= "3.3" in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(7.31.1)
Requirement already satisfied: widgetsnbextension~3.5.0 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(3.5.2)
Requirement already satisfied: traitlets>=4.3.1 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(5.1.1)
Requirement already satisfied: nbformat>=4.2.0 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(5.1.3)
Requirement already satisfied: jupyterlab-widgets>=1.0.0; python_version >= "3.6" in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from ipywidgets)
(1.0.2)
Requirement already satisfied: tornado<7.0,>=4.2 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from
ipykernel>=4.5.1->ipywidgets) (6.1)
Requirement already satisfied: matplotlib-inline<0.2.0,>=0.1.0 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from
ipykernel>=4.5.1->ipywidgets) (0.1.3)
Requirement already satisfied: debugpy<2.0,>=1.0.0 in
c:\users\pc\appdata\local\programs\python\python37\lib\site-packages (from
ipykernel>=4.5.1->ipywidgets) (1.5.1)Note: you may need to restart the kernel to use
updated packages.
```

You are using pip version 19.0.3, however version 22.0.3 is available.

You should consider upgrading via the 'python -m pip install --upgrade pip' command.

Activar Win

Ve a Configura

teutil-2.8.2 pywin32-303 pyzmq-22.3.0 six-1.16.0 stack-data-0.1.4 tomli-2.0.1 tornado-6.1 traitlets-5.1.1 typing-extensions-4.0.1 wcwidth-0.2.5

WARNING: You are using pip version 20.2.3; however, version 22.0.3 is available. You should consider upgrading via the 'c:\Users\PC\launchxmagh\CursoIntroPython-main\env\Scripts\python.exe -m pip install --upgrade pip' command.

(env) PS C:\Users\PC\launchxmagh\CursoIntroPython-main> c:\Users\PC\launchxmagh\CursoIntroPython-main\env\Scripts\python.exe -m pip install --upgrade pip

Collecting pip

Using cached pip-22.0.3-py3-none-any.whl (2.1 MB)

Installing collected packages: pip

Attempting uninstall: pip

Found existing installation: pip 20.2.3

Uninstalling pip-20.2.3:

Successfully uninstalled pip-20.2.3

Successfully installed pip-22.0.3

(env) PS C:\Users\PC\launchxmagh\CursoIntroPython-main> █

Python

Python

Python

```
(env) C:\Users\PC\launchxmagh\env\Scripts>C:\Users\PC\launchxmagh\env\Scripts\python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\pc\launchxmagh\env\lib\site-packages (21.2.3)
```

```
Collecting pip
```

```
  Using cached pip-22.0.3-py3-none-any.whl (2.1 MB)
```

```
Installing collected packages: pip
```

```
  Attempting uninstall: pip
```

```
    Found existing installation: pip 21.2.3
```

```
    Uninstalling pip-21.2.3:
```

```
      Successfully uninstalled pip-21.2.3
```

```
Successfully installed pip-22.0.3
```

```
(env) C:\Users\PC\launchxmagh\env\Scripts>pip freeze
```

```
python-dateutil==2.8.2
```

```
six==1.16.0
```

```
(env) C:\Users\PC\launchxmagh\env\Scripts>deactivate
```

```
C:\Users\PC\launchxmagh\env\Scripts>
```

```
(env) C:\Users\PC\launchxmagh\env\Scripts>pip freeze
```

```
(env) C:\Users\PC\launchxmagh\env\Scripts>pip install python-dateutil
```

```
Collecting python-dateutil
```

```
  Using cached python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
```

```
Collecting six>=1.5
```

```
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
```

```
Installing collected packages: six, python-dateutil
```

```
Successfully installed python-dateutil-2.8.2 six-1.16.0
```

```
WARNING: You are using pip version 21.2.3; however, version 22.0.3 is available.
```

```
You should consider upgrading via the 'C:\Users\PC\launchxmagh\env\Scripts\python.exe -m pip install --upgrade pip' command.
```

El número de serie del volumen es: 42F4-F7F1

Directorio de C:\Users\PC\launchxmagh

```

08/02/2022  01:41 p. m.    <DIR>          .
08/02/2022  01:41 p. m.    <DIR>          ..
08/02/2022  01:15 p. m.    <DIR>          .ipynb_checkpoints
07/02/2022  08:52 p. m.    <DIR>          CursoIntroPython-main
07/02/2022  08:51 p. m.           1,056,239 CursoIntroPython-main.zip
07/02/2022  09:43 p. m.           11,548 Ejercicio_1.ipynb
07/02/2022  09:51 p. m.           7,555 Ejercicio_2.ipynb
08/02/2022  01:40 p. m.    <DIR>          env
08/02/2022  01:14 p. m.           2,011 Programas.ipynb
07/02/2022  08:56 p. m.           24 ship-manual.ipynb
08/02/2022  01:41 p. m.    <DIR>          tutorial
08/02/2022  01:17 p. m.           588 Untitled.ipynb
          6 archivos           1,077,965 bytes
          6 dirs  592,440,721,408 bytes libres
  
```

C:\Users\PC\launchxmagh>cd tutorial

C:\Users\PC\launchxmagh\tutorial>Scripts\activate.bat

(tutorial) C:\Users\PC\launchxmagh\tutorial>deactivate.bat

C:\Users\PC\launchxmagh\tutorial>cd ..

C:\Users\PC\launchxmagh>cd env

C:\Users\PC\launchxmagh\env>cd Scripts\activate.bat

El nombre del directorio no es válido.

C:\Users\PC\launchxmagh\env>cd Scripts

C:\Users\PC\launchxmagh\env\Scripts>activate.bat

(env) C:\Users\PC\launchxmagh\env\Scripts>