

CodeLab Tutorial

Mert Karacelebi - 06.09.2023

Reach assignment from the Brightspace

The screenshot shows the Brightspace interface for the 'Assignments' section. The top navigation bar includes 'Course Home', 'Content', 'Collaboration', 'Assignments' (highlighted with a blue box), 'Ouriginal', 'Grades', and 'Help'. Below the navigation bar, the 'Assignments' title is displayed on the left, and a 'View History' button is below it. On the right, there is a 'Help' icon. A blue box with the text 'Inside assignments' has an arrow pointing to the 'Assignments' tab. Another blue box with the text 'Click the external link' has an arrow pointing to a dropdown arrow in the 'Assignment' column of a table. The table has columns: 'Assignment', 'Completion Status', 'Score', 'Evaluation Status', and 'Due Date'. The first row is 'No Category'. The second row shows 'EE4C12 Machine Learning for Electrical Engineering (2023/24 Q1)' with an 'External Learning Tool' icon and a status of 'Not Submitted'.

Course Home Content Collaboration ▾ **Assignments** Ouriginal Grades Help

Assignments Help

[View History](#)

Assignment	Completion Status	Score	Evaluation Status	Due Date
No Category				
EE4C12 Machine Learning for Electrical Engineering (2023/24 Q1) External Learning Tool	Not Submitted			

First time login – Accept terms and conditions

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I Agree

Vocareum Environment

EE4C12 Machine Learning for Electrical Engineering (2023/24 Q1)

My Grade

Code Lab 1

Details

Submission count:

None

Due date:


Sep 14 2023 13:45:59 CEST

My Work

The assignment will be graded after submission

Click the “My Work” inside the Practicum session

Jupyter environment – Open the notebook

Control Panel

FilesRunningClustersNbextensions

Select items to perform actions on them.

UploadNew↻

<input type="checkbox"/>		Name ↑	Last Modified ↑
<input type="checkbox"/>	📁		
<input type="checkbox"/>	📄	codelab_1_Student.ipynb	21 minutes ago
<input type="checkbox"/>	📄	CodeLab 1.pdf	21 minutes ago
<input type="checkbox"/>	📄	personAclick.npy	20 minutes ago
<input type="checkbox"/>	📄	personApinch.npy	21 minutes ago
<input type="checkbox"/>	📄	personAswipe.npy	20 minutes ago
<input type="checkbox"/>	📄	personAwave.npy	21 minutes ago

Jupyter environment – Submit your work



The screenshot shows the JupyterLab interface. At the top right, there is a blue 'Submit' button, a 'Details' dropdown, a 'Teacher View' button, and a 'Control Panel' button. Below these is a 'Not Trusted' warning and the text 'Python 3 [3.7]'. The main menu bar includes 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. Below the menu bar is a toolbar with icons for saving, creating new files, opening recent files, undo, redo, and a 'Markdown' dropdown. The notebook title is 'codelab_1_Student (autosaved)'.

CodeLab 1 - Basics of Python (Numpy and Pandas) & Data Processing

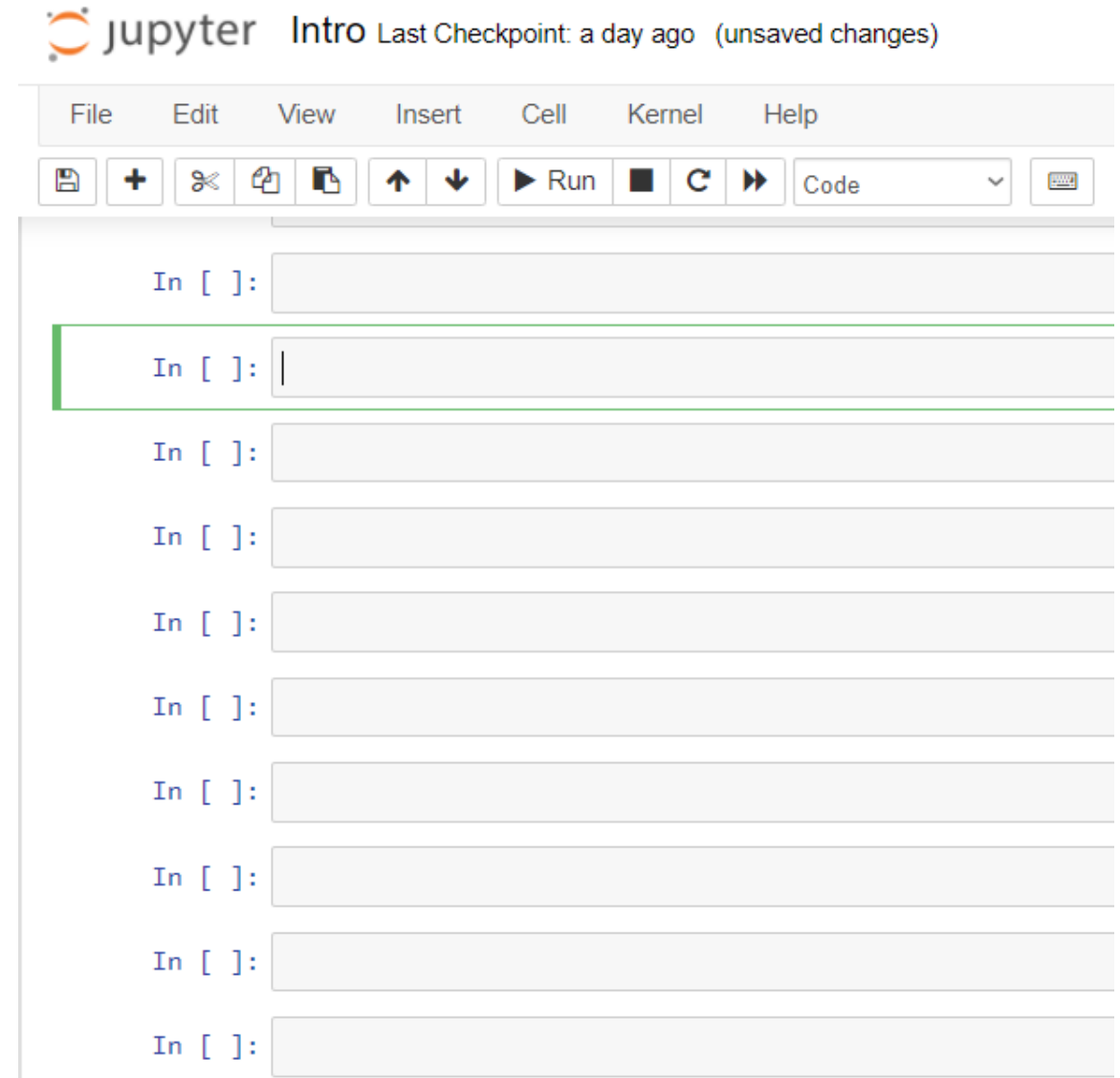
Radar sensors have previously been successfully used to classify actions such as walking, carrying an item, and discriminating between people and animals' gaits, drones, and bird targets. All of this analysis used the phenomenon called Micro-Doppler, which is the additional movements a target has on top of its bulk velocity. For example, a person may walk forward at 3 m/s, but their arms and legs oscillate back and forth as they move at this speed. This movement created a signature that was coined as Micro-Doppler [1(references in the pdf document)].

Please submit your work every time you want to close the notebook. The last submission before the deadline will be reviewed only.

Jupyter notebook environment

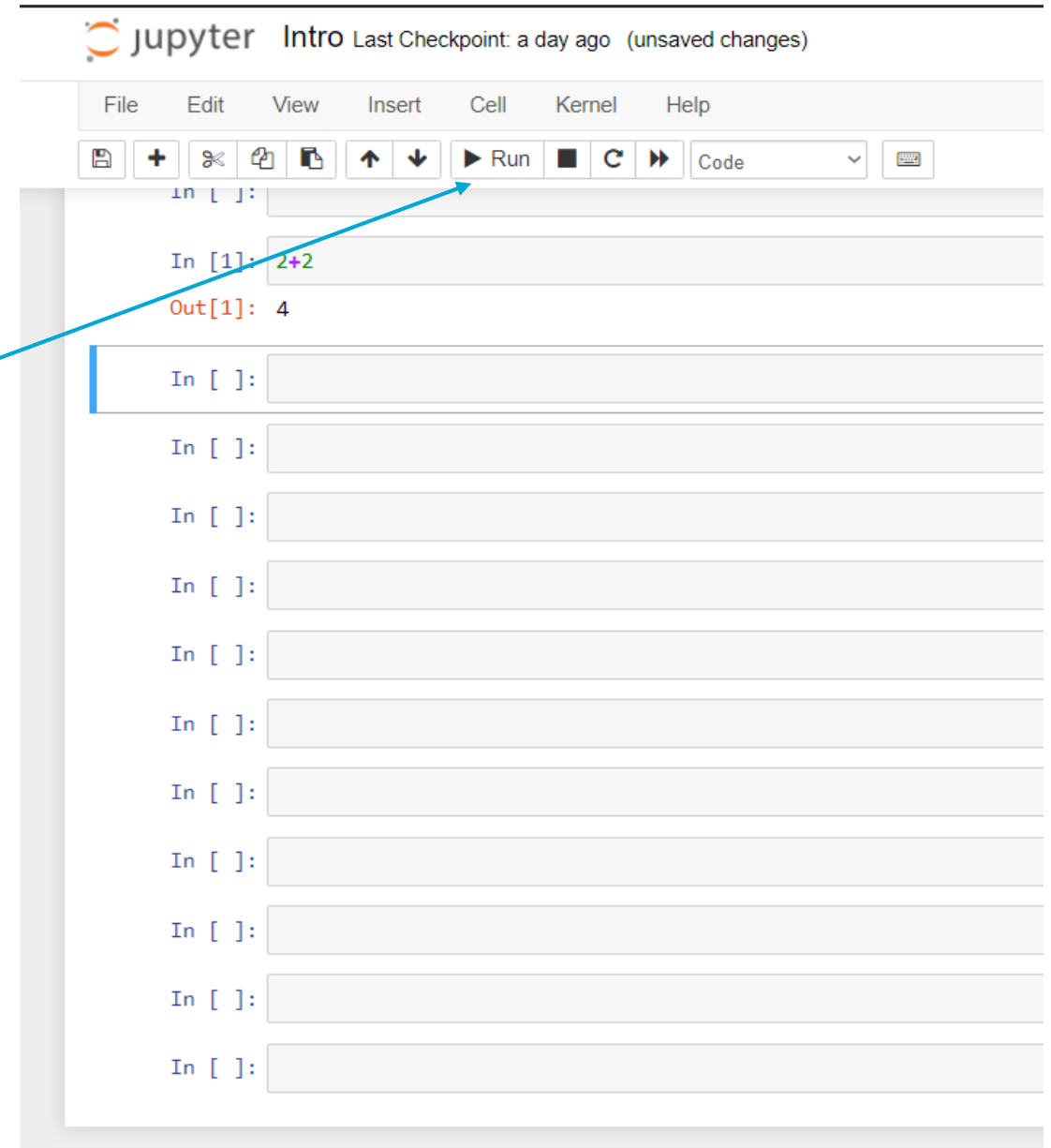
Jupyter notebook environment

- You will code the given tasks inside the cell blocks.



Jupyter notebook environment

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- Alternatively:
 - “Ctrl+Enter” runs the selected cell
 - “Shift+Enter” runs the selected cell and move to next one (if selected cell is the last, creates another one).



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- The number on the left side of the cell indicates the order of execution for both input and output.

jupyter Intro Last Checkpoint: a day ago (unsaved changes)

File Edit View Insert Cell Kernel Help

Run

In [1]: `2+2`

Out[1]: 4

In [2]: `import numpy as np`

In [3]: `np.pi`

Out[3]: 3.141592653589793

In []:

In []:

In []:

In []:

In []:

In []:

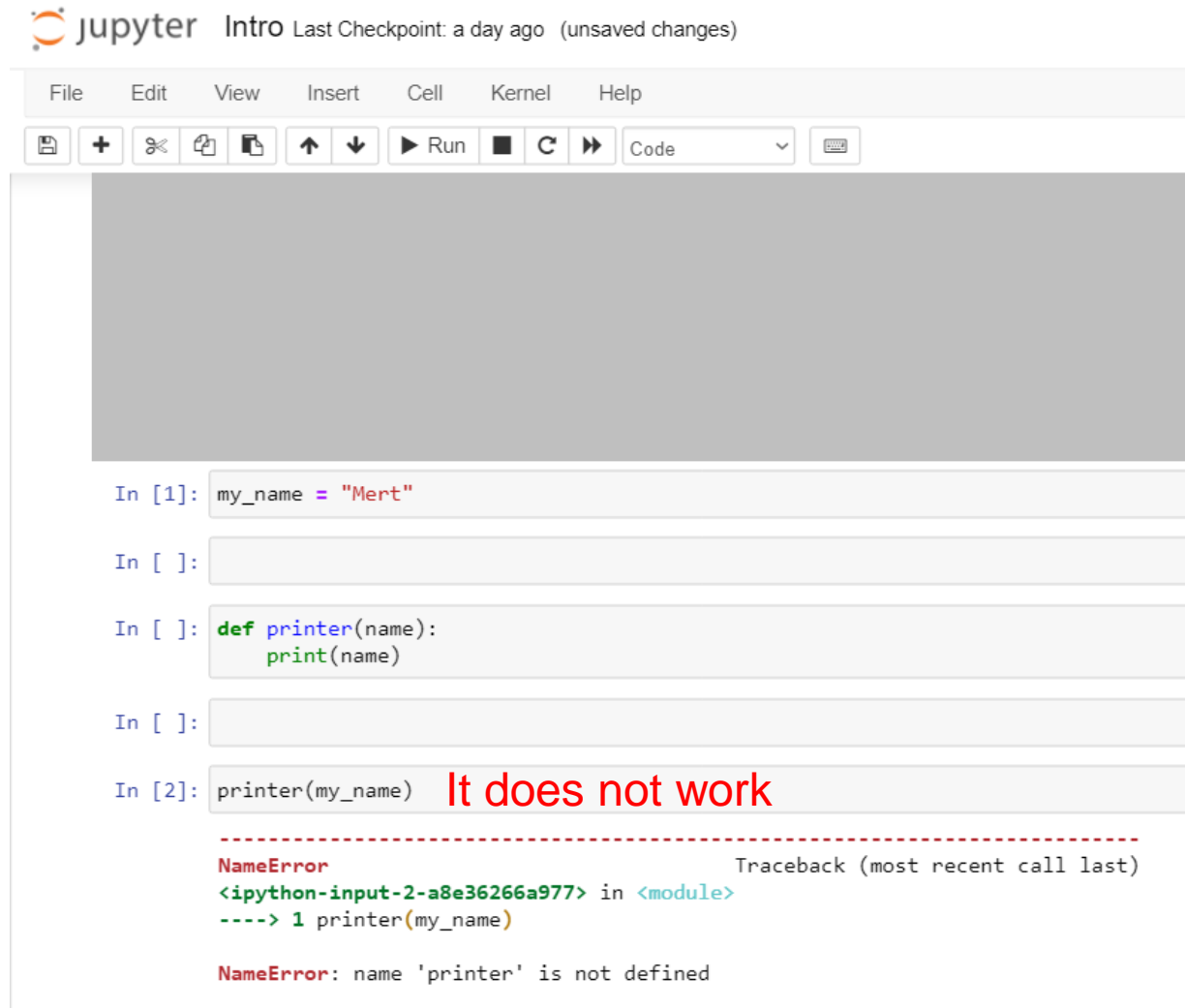
In []:

In []:

In []:

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- The number on the left side of the cell indicates the order of execution for both input and output.
- Beware the order of cells are irrelevant but the execution order is important.



The screenshot shows a Jupyter Notebook interface. At the top, there's a header with the Jupyter logo, the word "jupyter", and "Intro Last Checkpoint: a day ago (unsaved changes)". Below this is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", and "Help". Under the menu bar is a toolbar with icons for saving, adding, deleting, copying, pasting, undo, redo, and a "Run" button. To the right of the toolbar is a dropdown menu set to "Code" and a keyboard icon. The main area of the notebook contains several code cells. The first cell is empty. The second cell contains the code `my_name = "Mert"`. The third cell is empty. The fourth cell contains the code `def printer(name):` followed by `print(name)` on the next line. The fifth cell is empty. The sixth cell contains the code `printer(my_name)` and has the text "It does not work" written in red next to it. Below the code cells, there is a traceback for a `NameError`. The traceback shows the error occurred in the last cell, at line 1, where `printer(my_name)` was called. The error message is `NameError: name 'printer' is not defined`.

```
In [1]: my_name = "Mert"

In [ ]: 

In [ ]: def printer(name):
        print(name)

In [ ]: 

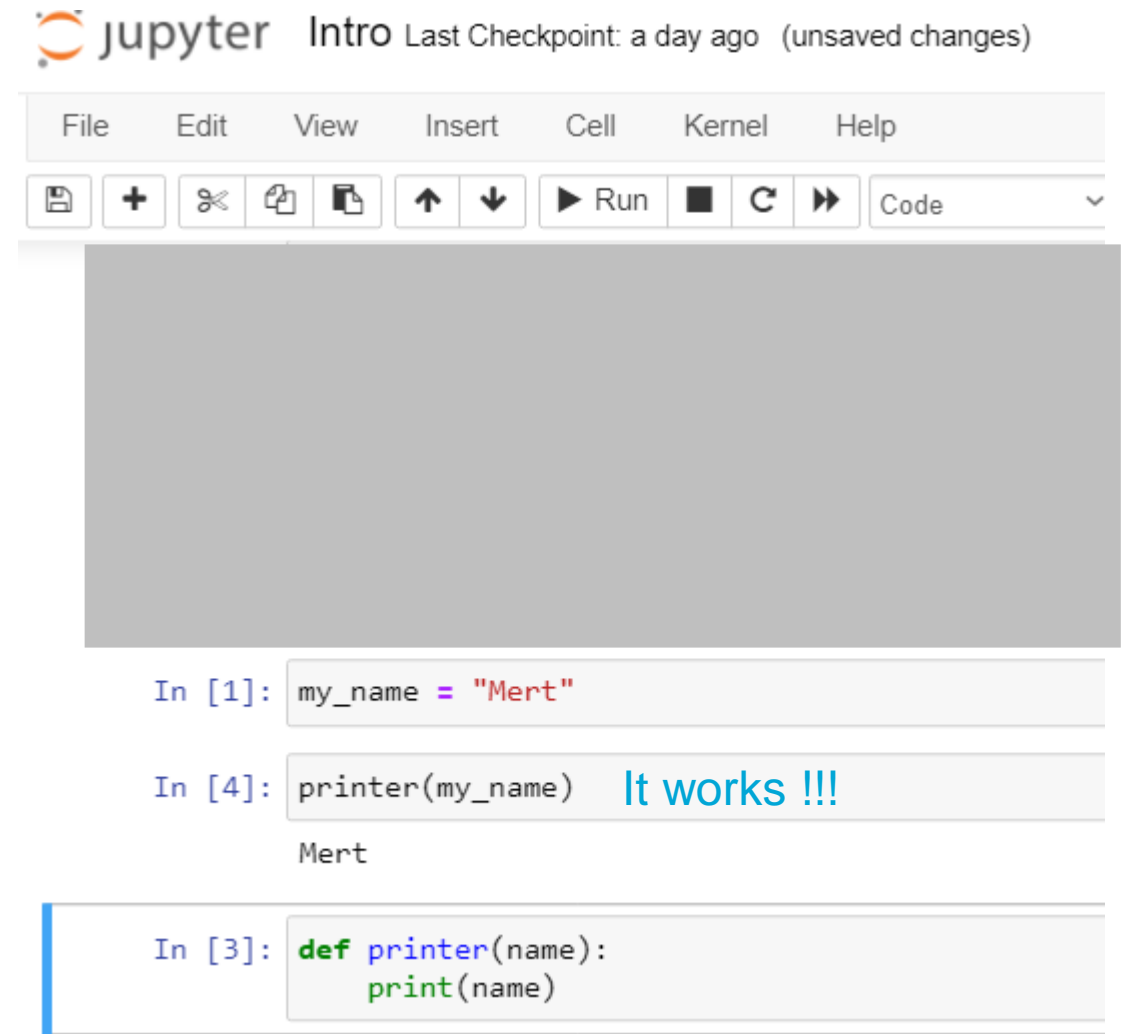
In [2]: printer(my_name) It does not work

-----
NameError                                Traceback (most recent call last)
<ipython-input-2-a8e36266a977> in <module>
----> 1 printer(my_name)

NameError: name 'printer' is not defined
```

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Export results

- File
- Download as
- PDF
- Html
- Latex (then convert pdf)

