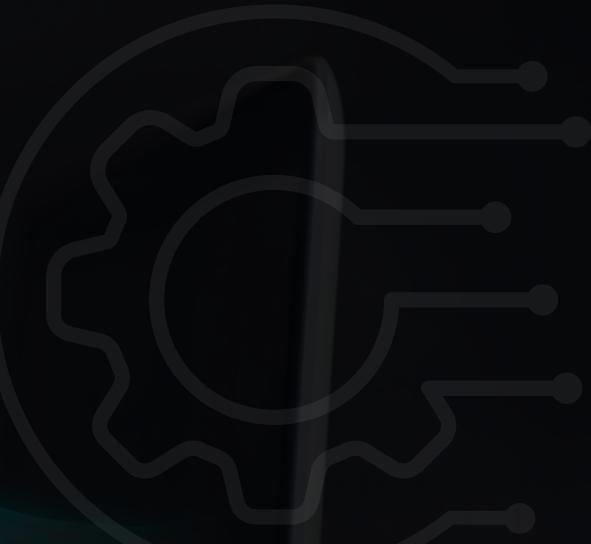


PYTHON PROGRAMMING LANGUAGE



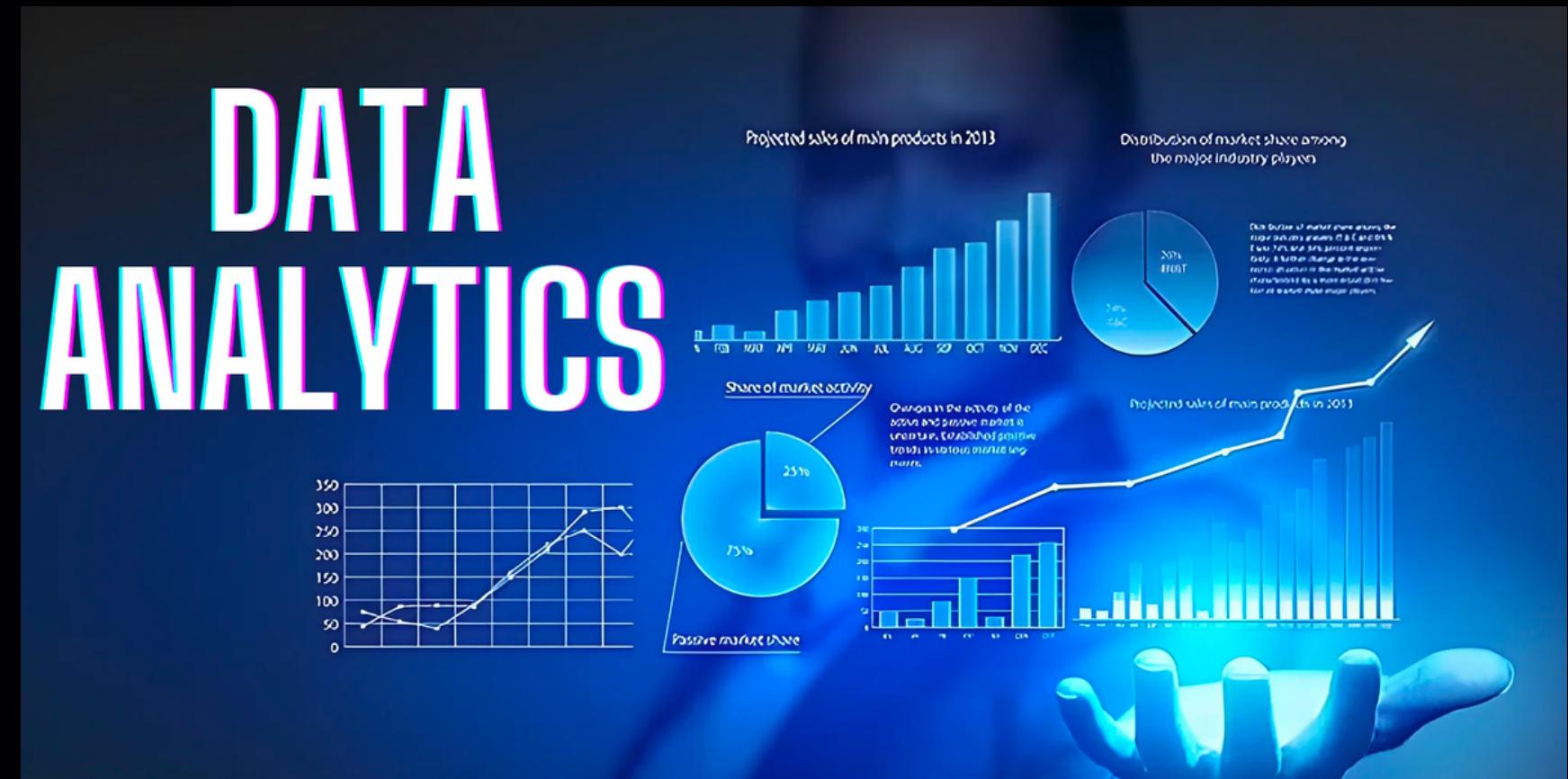
WHAT IS PYTHON

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built-in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together

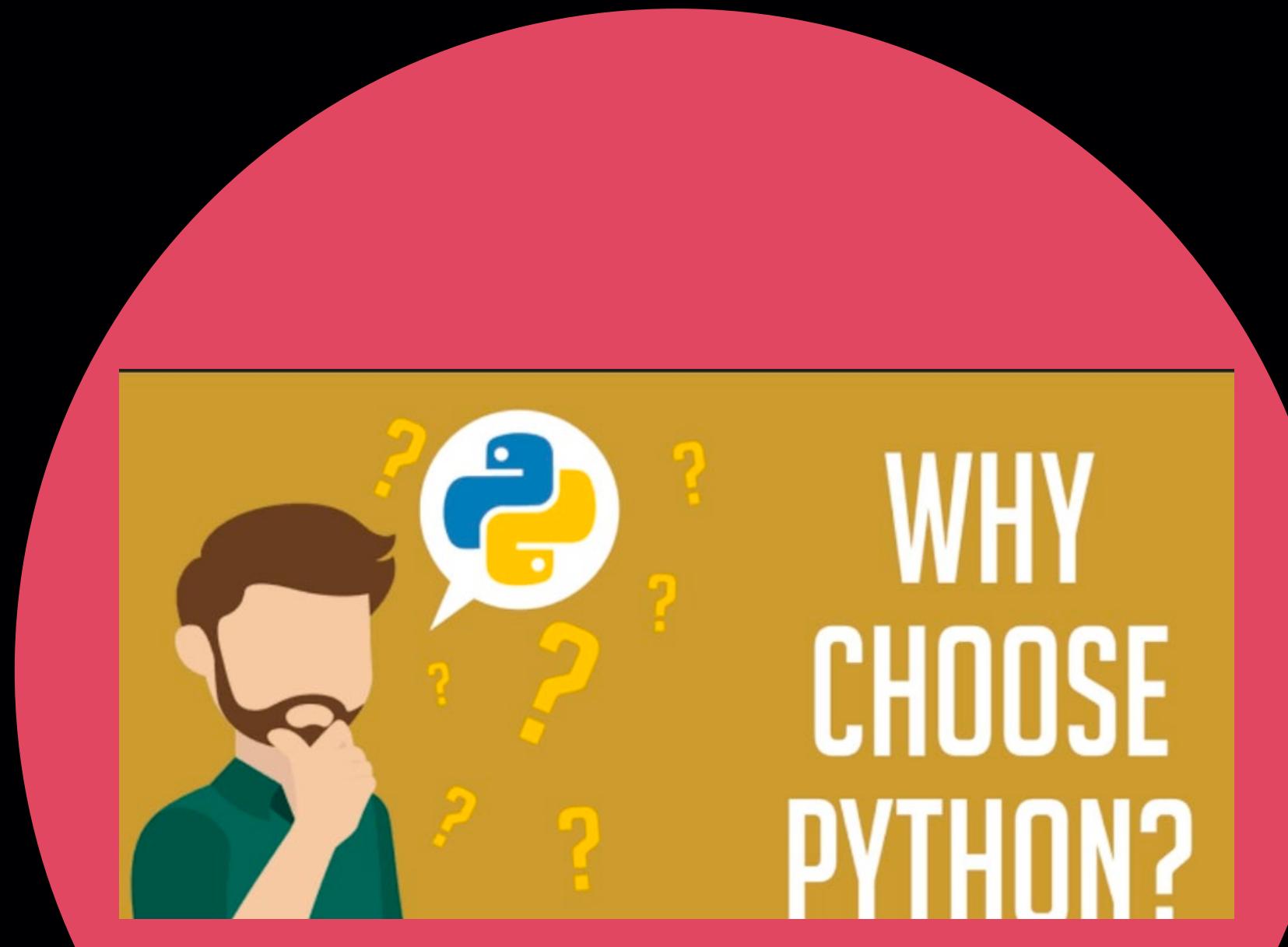
What can Python do?

- Python can be used on a server to create web applications.
- Python can be used alongside software to create workflows.
- Python can connect to database systems. It can also read and modify files.
- Python can be used to handle big data and perform complex mathematics.
- Python can be used for rapid prototyping, or for production-ready software development.



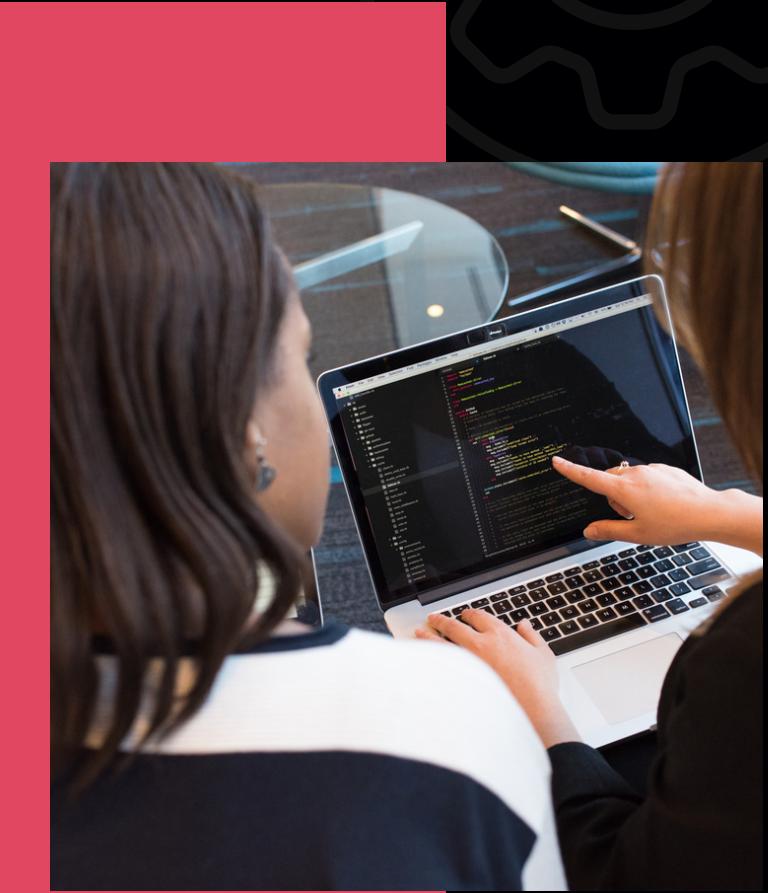
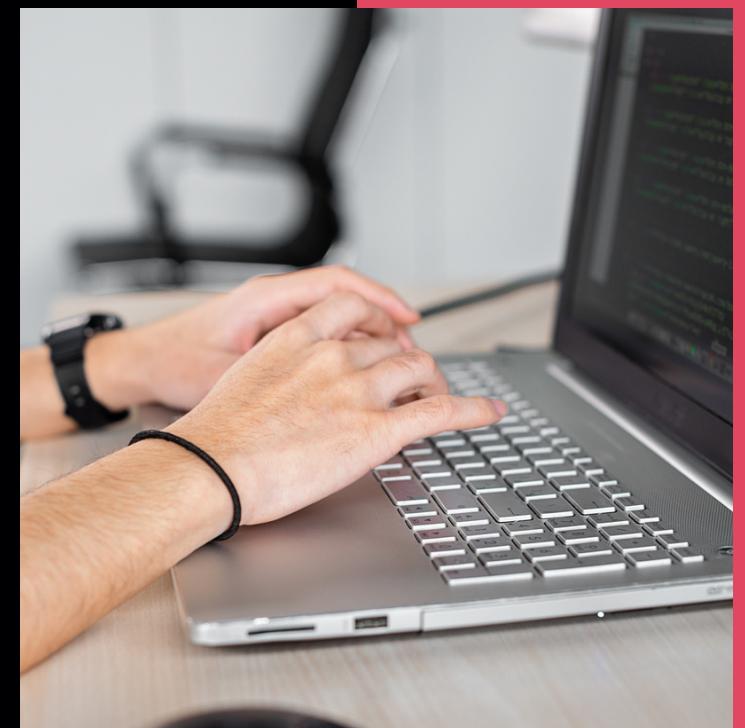
WHY PYTHON?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).
- Python has a simple syntax similar to the English language.
- Python has syntax that allows developers to write programs with fewer lines than some other programming languages.
- Python runs on an interpreter system, meaning that code can be executed as soon as it is written. This means that prototyping can be very quick.
- Python can be treated in a procedural way, an object-oriented way or a functional way.



COURSE OUTLINE

- 01** Overview - Setup & start
- 02** Data type in Python
- 03** Data structure & operation
- 04** Function in Python
- 05** Pandas DataFrame
- 06** Automating Tasks
- 07** Data Exploratory (EDA)
- 08** Basic Machine Learning with Python

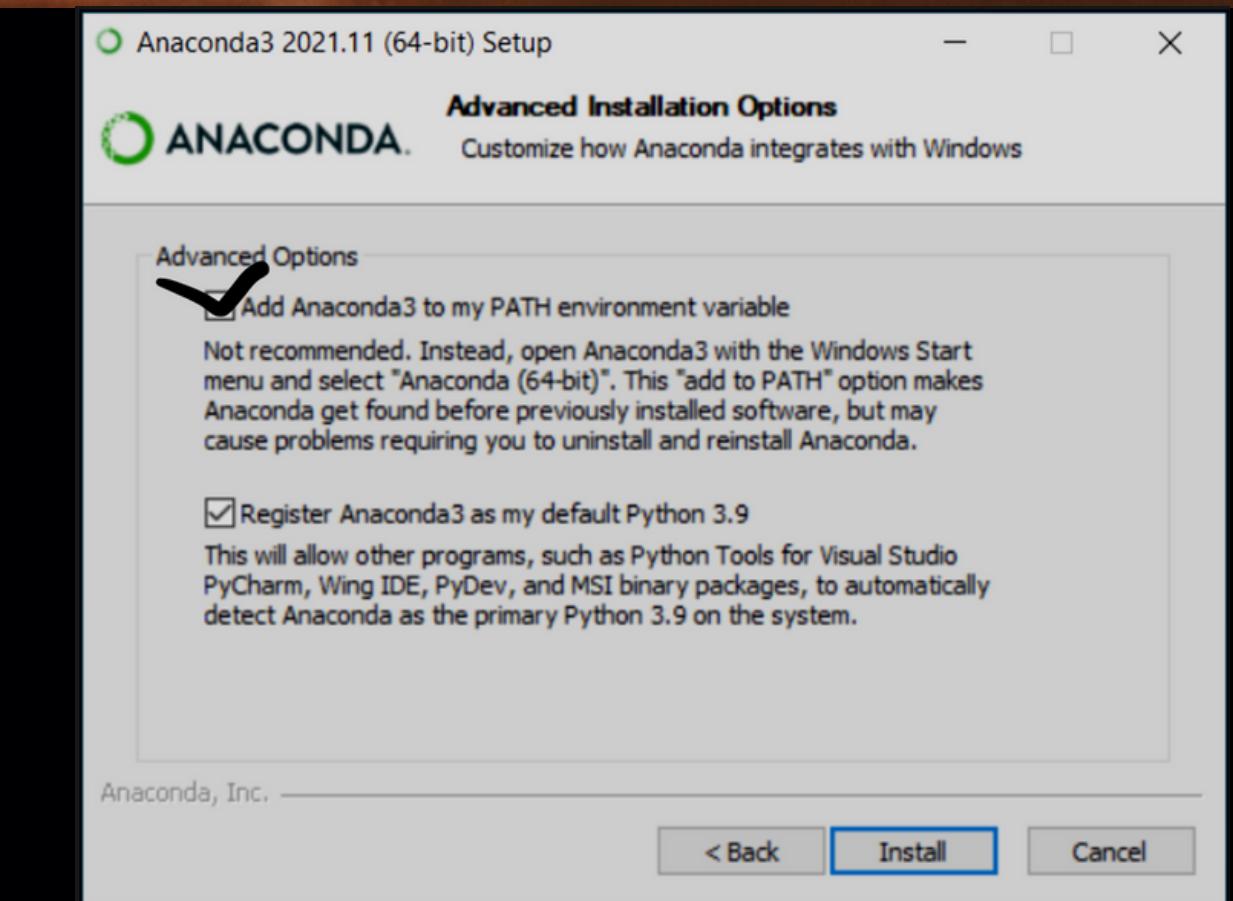




SETUP

Anaconda setup:

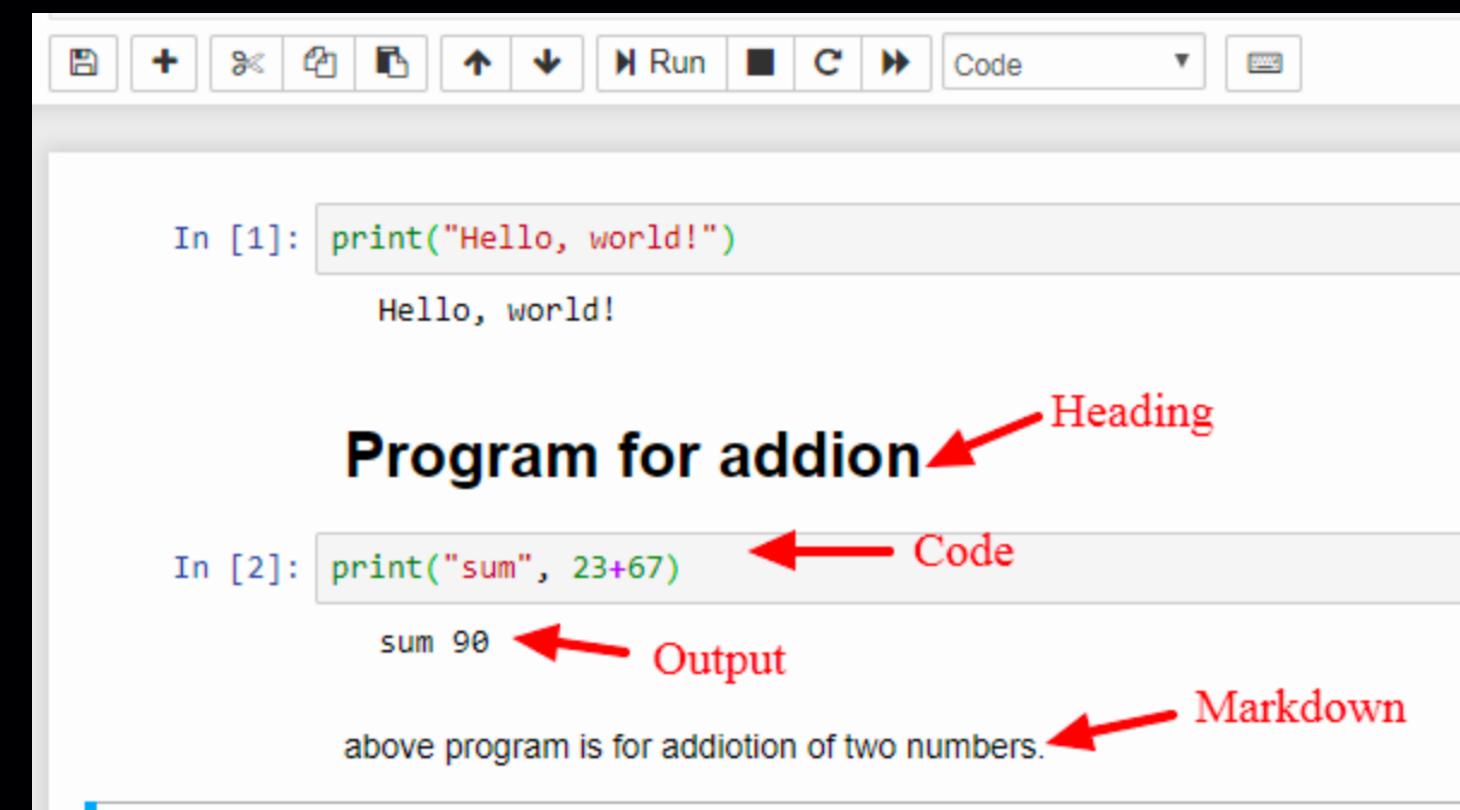
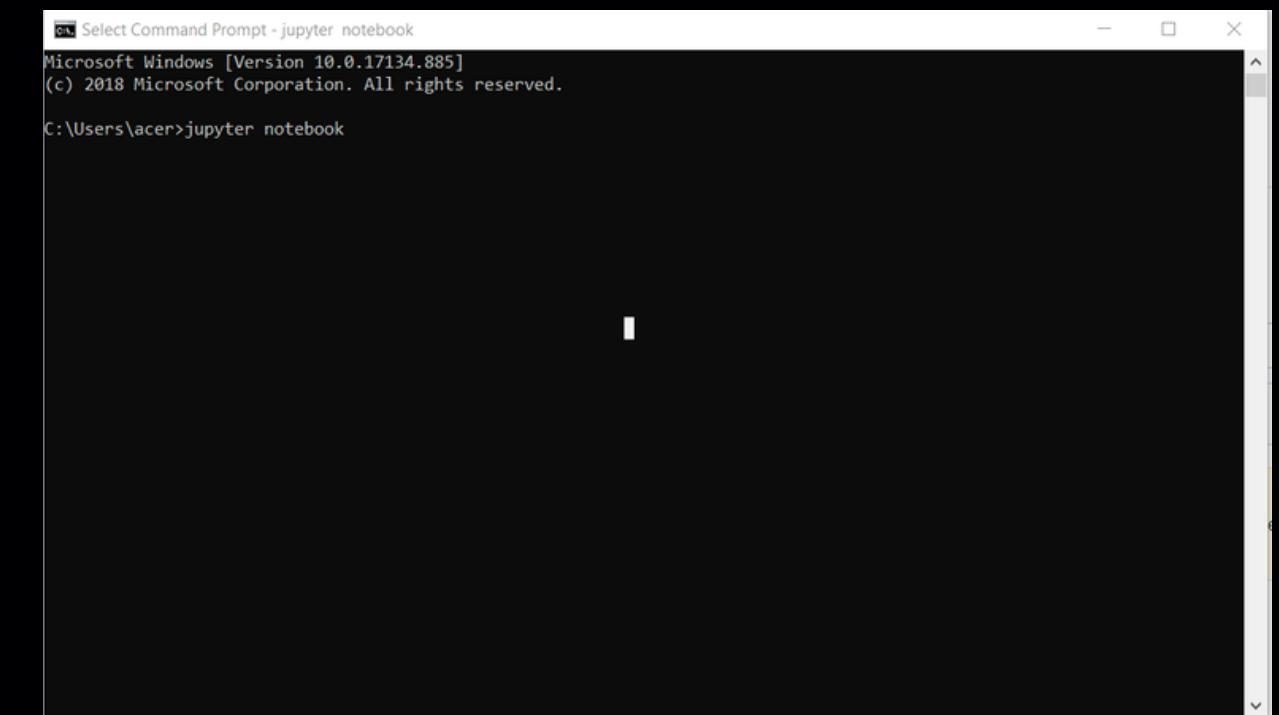
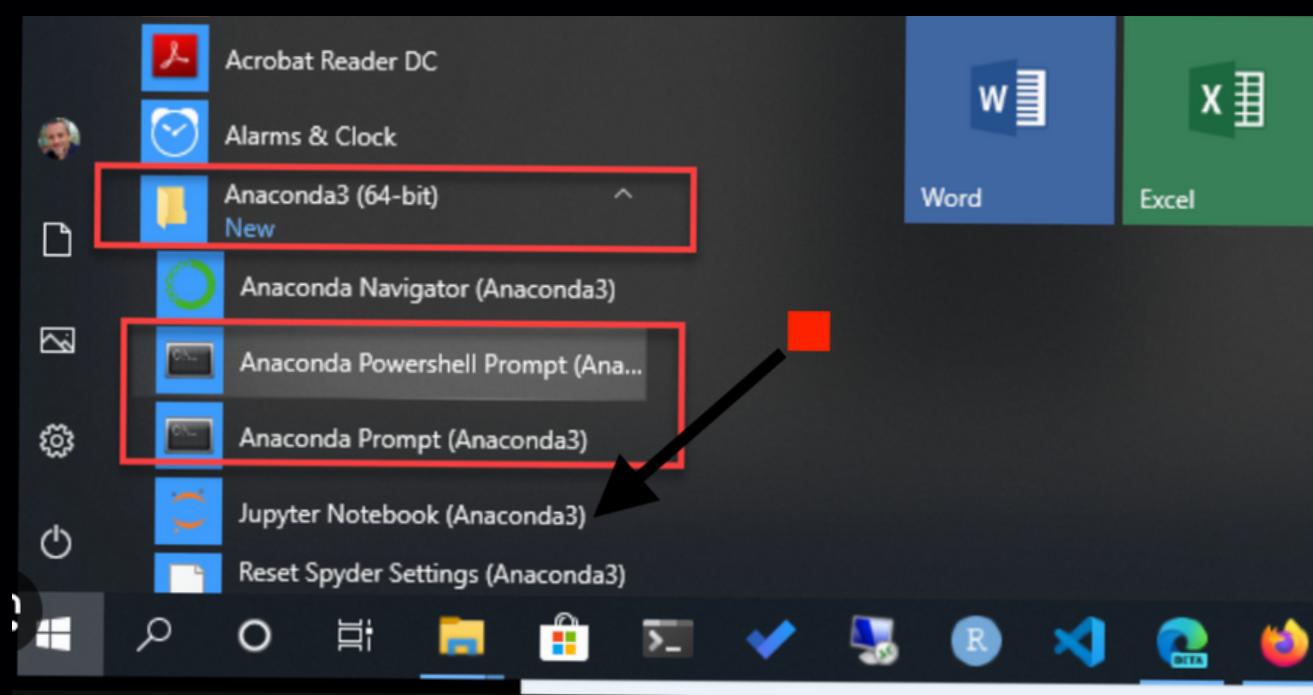
<https://docs.anaconda.com/free/anaconda/install/windows/>





JUPYTER NOTEBOOK

Start jupyter notebook



The image shows a Jupyter Notebook interface with the following content:

```
In [1]: print("Hello, world!")
```

Hello, world!

Program for addition Heading

```
In [2]: print("sum", 23+67)
```

sum 90 Output

above program is for addition of two numbers. Markdown

Annotations with red arrows point to specific elements:

- An arrow points to the heading "Program for addition" with the label "Heading".
- An arrow points to the code "print("sum", 23+67)" with the label "Code".
- An arrow points to the output "sum 90" with the label "Output".
- An arrow points to the text "above program is for addition of two numbers." with the label "Markdown".

Run code on jupyter notebook

THANK YOU

