Python for Beginners

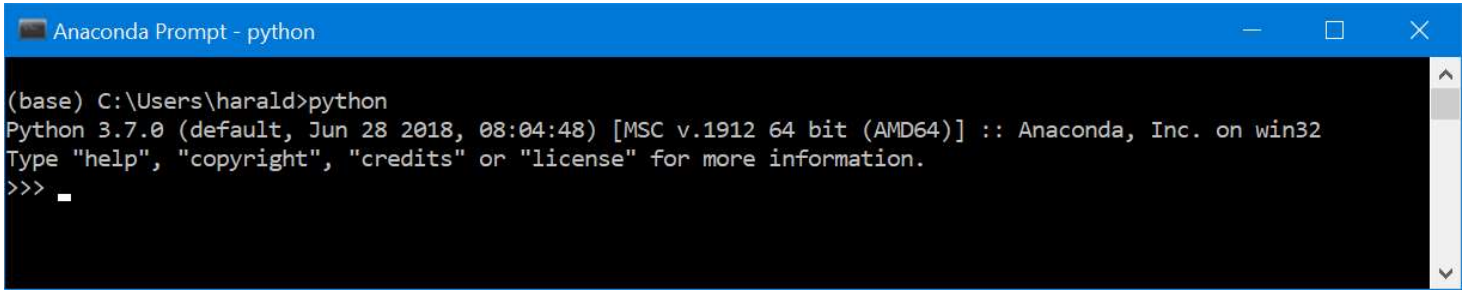
02 - Installation

Python Distribution

- Do not install plain Python from https://www.python.org
- It is better to install a Conda Python Distribution to get
  - Integrated package and dependency management
  - Virtual environment management
- Anaconda:
  - Pro: Good for newbies.
  - Con: Needs more space on disk
- Miniconda:
  - Pro: Needs less space on disk (→ for Raspberry Pi)
  - Con: less convenient

Python Installation (Windows)

- Download Anaconda 64bit for Python 3.6 from https://www.anaconda.com/download/
- Install Anaconda with default settings
- Don’t install Visual Studio Code (we will use another IDE)
- Check the installation:
  - Start the **Anaconda Prompt**
  - And start the interactive Python Shell with “python”:

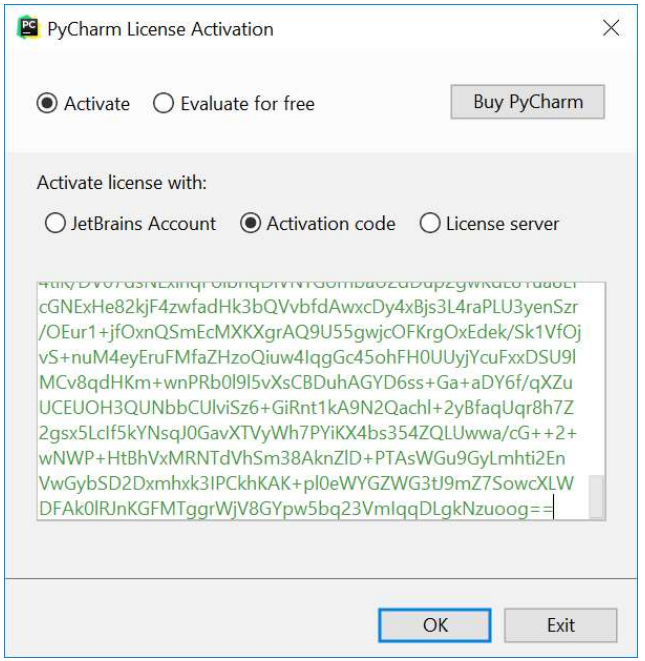


PyCharm Installation (Windows)

- Download PyCharm Professional from https://www.jetbrains.com/pycharm/
- Run the PyCharm-*.exe file you've downloaded
- Follow the instructions in the installation wizard

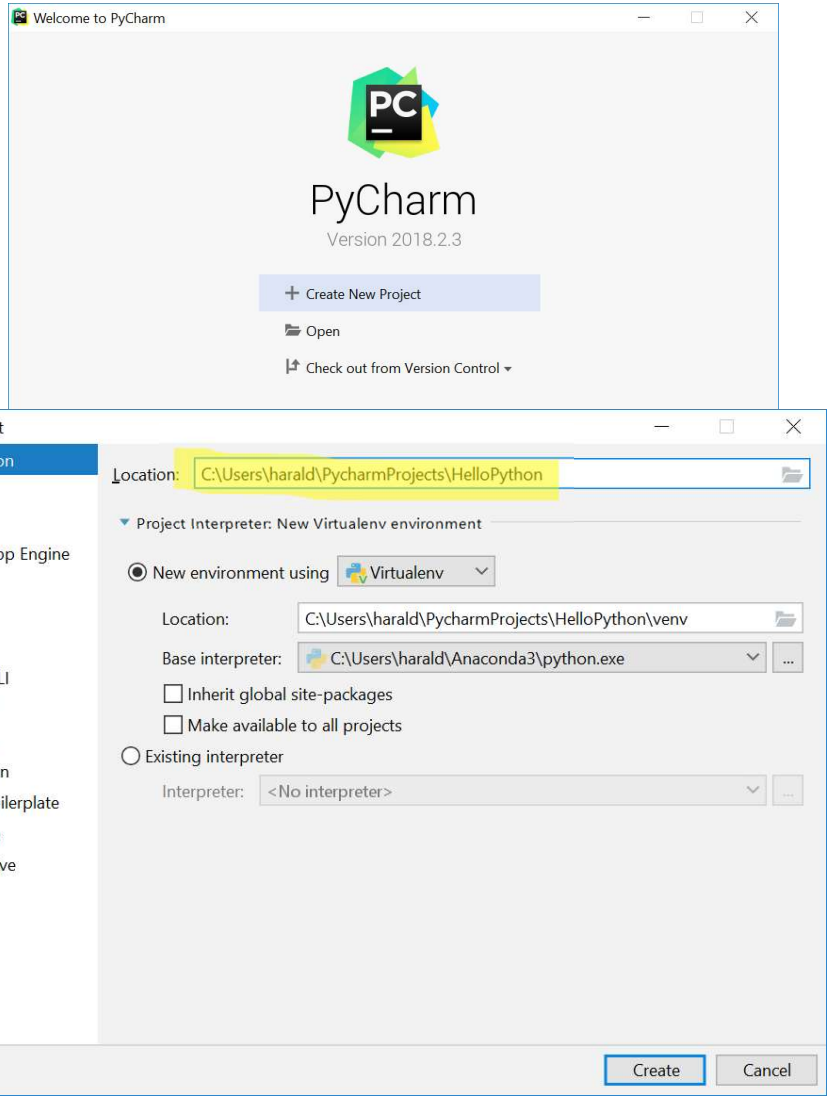
PyCharm Registration / Activation

- Register with your school email address at https://www.jetbrains.com/shop/eform/students
- Run PyCharm for the first time
- Choose the ”Do not import settings” option
- Enter the activation code you’ve downloaded at the registration
- If you don’t have an activation code right now:
  - You can evaluate PyCharm for 30 days
  - You can use the license server (in our school network)



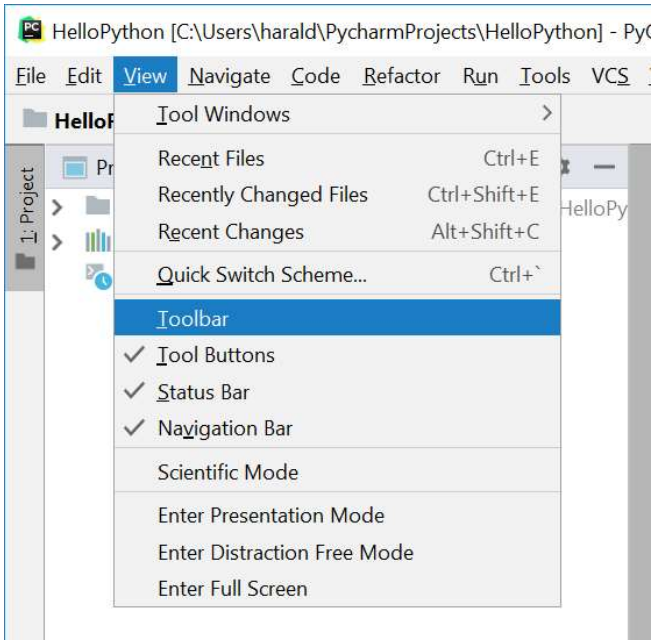
Create a new Project

- Choose “+ Create New Project”
- Select “Pure Python”
- Set the location if the project
  - Should be a working directory for your python projects only
- Check the settings of the Project Interpreter / Virtual Environment
- And create the project



PyCharm Settings

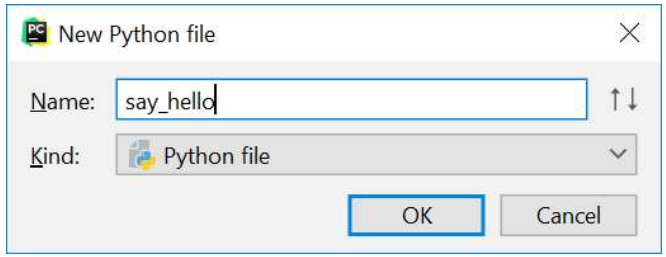
- Turn on the Toolbar and Tool Buttons (if they are not turned on yet)



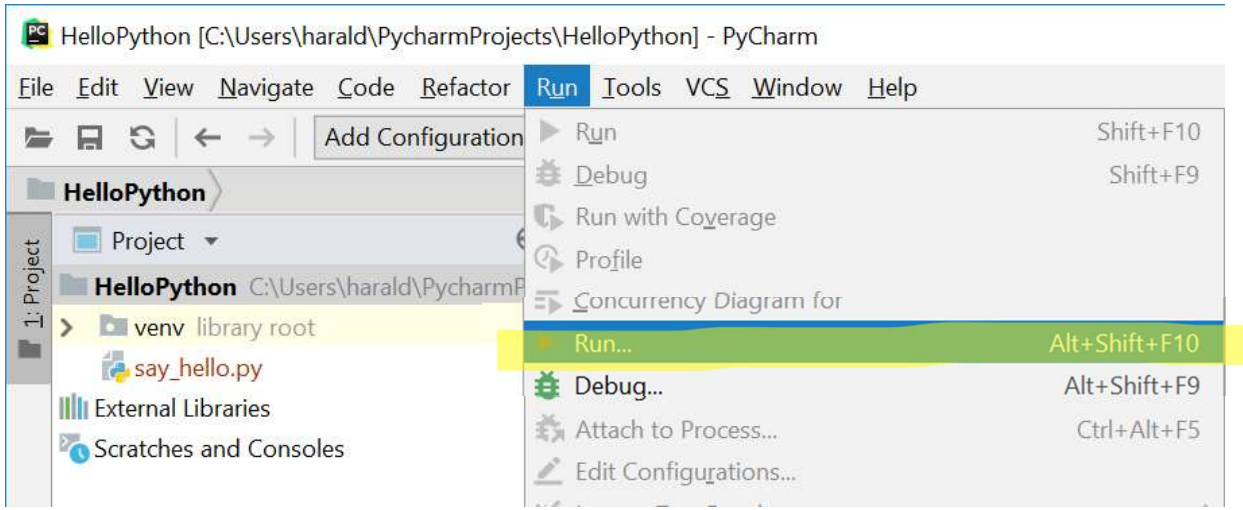
Create a new python file

- Create a new python file “say_hello.py”
- Enter the following code:

```
message = "Hello World"
print(message)
```

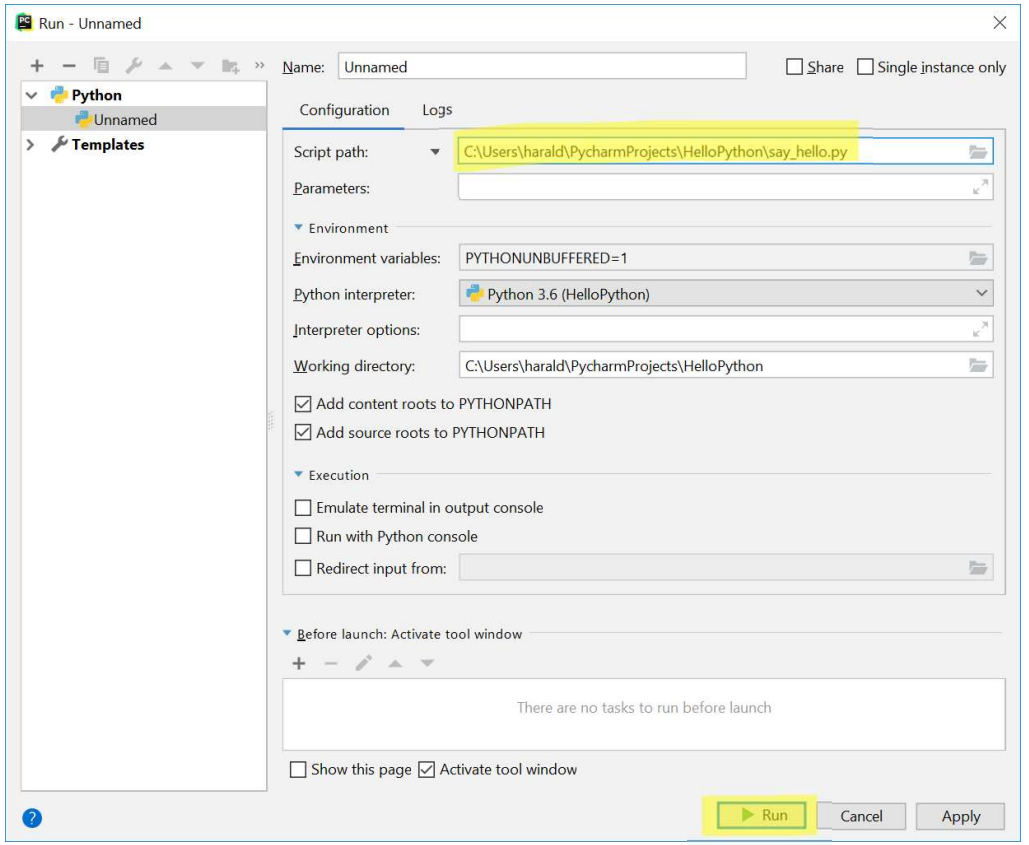


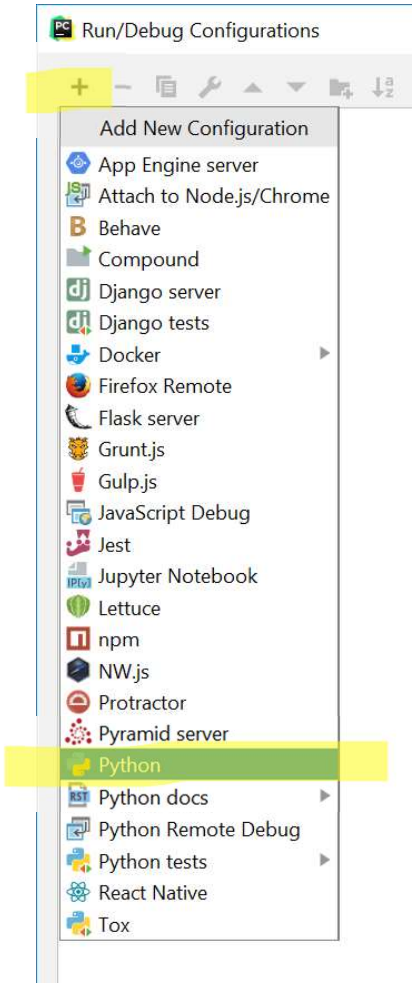
- Create a new Run configuration via “Run” + “Run…”

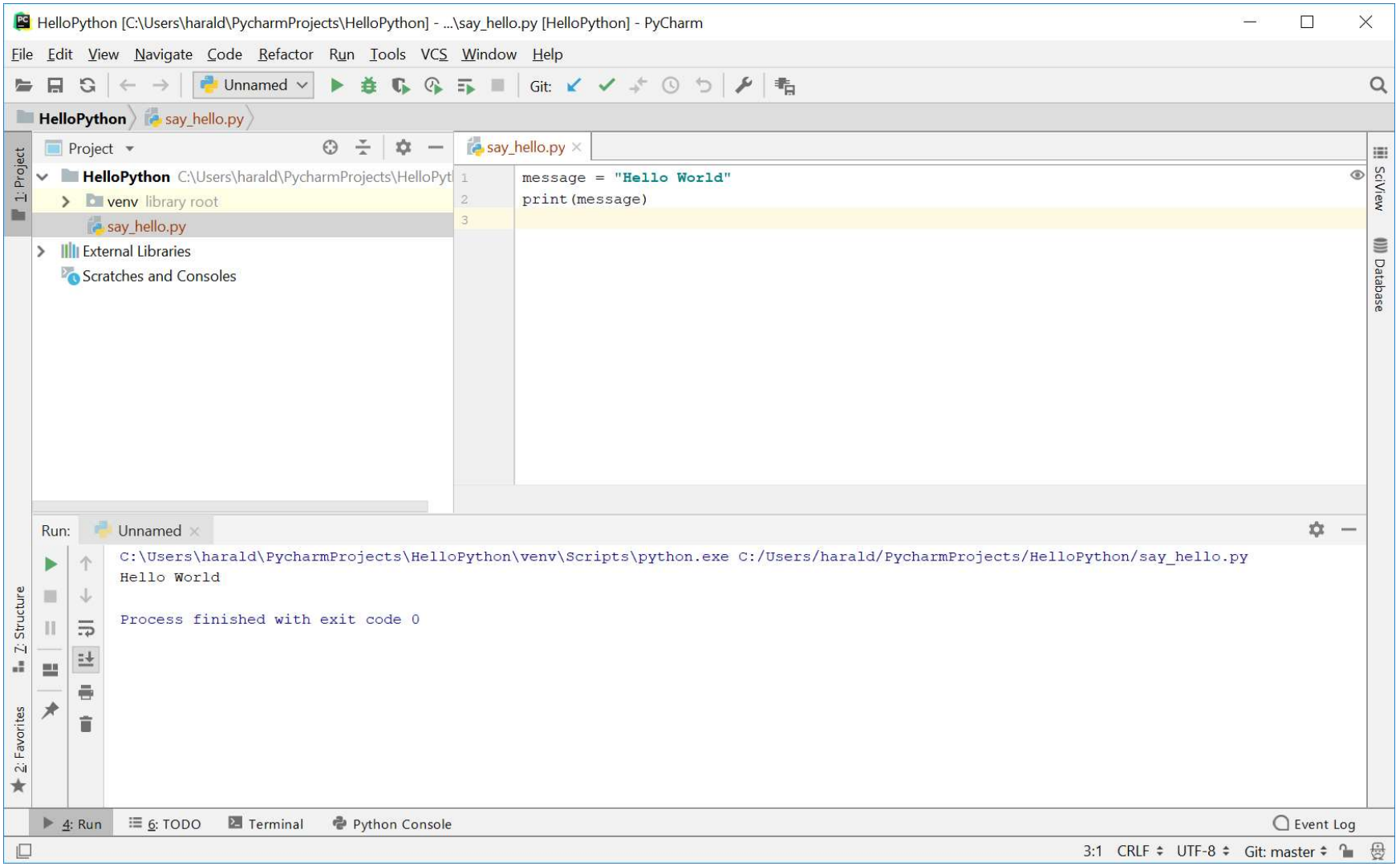


Create a Run Configuration

- Select “Edit Configurations”
- Click on “+” and select “Python”
- Enter the script path and click “Run”






HelloPython [C:\Users\harald\PycharmProjects\HelloPython] - ...\say_hello.py [HelloPython] - PyCharm
File Edit View Navigate Code Refactor Run Tools VCS Window Help
Unnamed
Git:
HelloPython
say_hello.py
Project
HelloPython C:\Users\harald\PycharmProjects\HelloPyt
venv library root
say_hello.py
External Libraries
Scratches and Consoles
say_hello.py
1 message = "Hello World"
2 print(message)
3
Run:
Unnamed
C:\Users\harald\PycharmProjects\HelloPython\venv\Scripts\python.exe C:/Users/harald/PycharmProjects/HelloPython/say_hello.py
Hello World
Process finished with exit code 0
1: Project
7: Structure
2: Favorites
SciView
Database
4: Run
6: TODO
Terminal
Python Console
Event Log
3:1 CRLF UTF-8 Git: master