Assignment Project Exam Help

CS229 https://powcoder.com

Python & Nundy WeChat powcoder

Angelica Sun

How does python relate to other languages?

Python 2.0 released in 2000

(Python 2.7 "end-of-life" in 2020)

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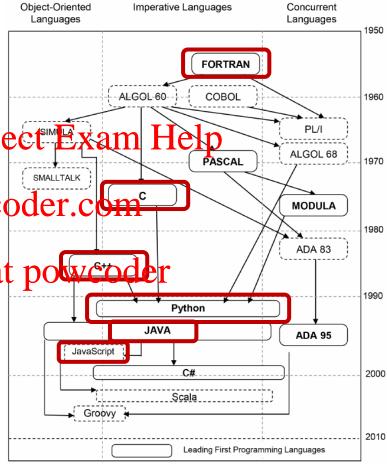
Python 3.0 released in 2008

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Interpreted, like MATLAB

- Object-oriented
- Dynamically-typed



Before you start

Always use **conda** for environment management

Create a new environment

conda create -n cs229 python=3.9

Create an Avisigmntent Project Exam Help

conda env create -f environment.yml

Activate an environtepts://proviceoder.com

conda activate cs229

List existing environments We Chat powcoder

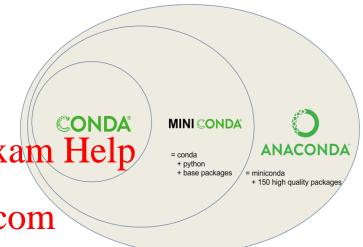
conda env list

Install a package in current environment

conda install PACKAGENAME (or pip)

More commands:

https://conda.io/projects/conda/en/latest/_downloads/843d9e0198f2a193a3484886f a28163c/conda-cheatsheet.pdf



Notepad is not your friend ...

Get a text editor/IDE

• PyCharm (IDE) Assignment Project Exam Help

- Visual Studio Code (IDE??)
 https://powcoder.com
- Sublime Text (IDE??) WeChat poweoder
- Notepad ++/gedit
- Vim (for Linux)







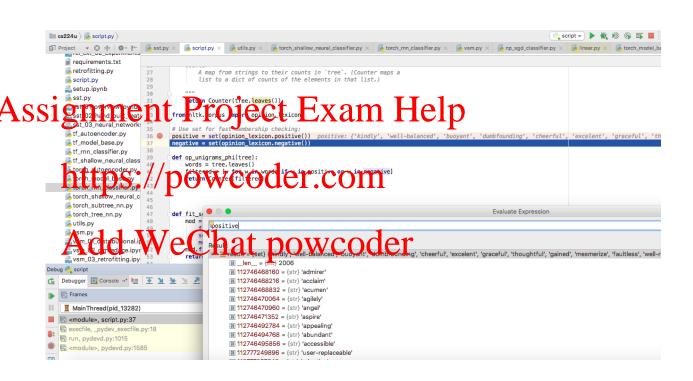


To make you more prepared

PyCharm

Great debugger

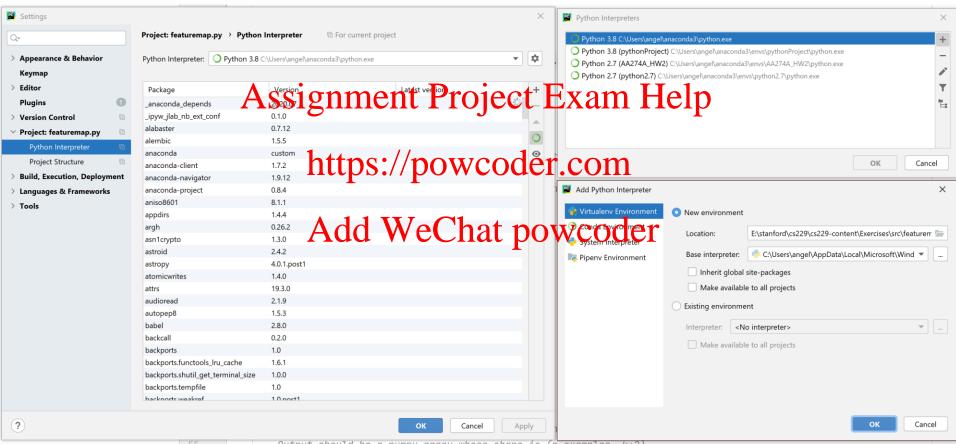
 Proper project management



FYI, professional version free for students: https://www.jetbrains.com/student/

To make you more prepared

Using PyCharm with conda



To make you more prepared

Visual Studio Code

- Light weight
- Wide variety of puging nm to enable support for all languages
- Better UI

```
class Vehicle:
                                                          def __init__(self, make, name, year,
                                                                        is electric=False, price=100):
                                                               self.price = price

■ test_data.txt
                                                               self.odometer = 1
                                                          def compute price(self):
                                                              if self.is electric:
                                                                   price = self.price / (self.odometer * 0.8)
Add WeChat
                                                      if name == ' main ':
                                                          family car = Vehicle('Honda', 'Accord', '2019',
                                                                                price=10000)
                                                          print(family_car.compute_price())
                                                          family car.drive(100)
                                                          print(family_car.compute_price())
                         20* → Python 3.6.5 64-bit ('base': conda) ⊗ 0 🛦 0
                                                                                                                 Ln 18, Col 37 Spaces: 4 UTF-8 CRLF Python R (
```

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Python

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```
> Faturemap.py
                                                           # import package
                           import numpy
  🦰 main.py
                           from matplotlib import pyplot as plt # import from package and rename
  atils.py
                           from utils import *
                                                           # import from local file
 III External Libraries
  Scratches and Consoles
                     5
                           var = 10
                                                           # variables don't need type delcaration
                                                           # codes written at indentation level 0 always get executed
                     6
                           anothervar = "Hello"
                           print("I always get executed!") # even when imported
                     8
                     9
                           def print_hi(name):
                                                           # define a function
                               print(f'Hi, {name}')
                    10
                                                            t Project Exam Help
                    11
                               def __init__(self, x):
                                                           # constructor
                                                            use first formal_parameter (named "self" by convention) for self reference,
                    14
                                  self.x = x
                               def printX(self):
                                                           # functions are instance by default
                    16
                                  print(self.x)
                    17
                    18
                                            Add WeChat powcoder
                    19
                               def printHello(self):
                    20
                    21
                                  print("hello")
                    22
                           class Bar(Foo):
                    23
                                                           # inherit a class
                    24
                               pass
                           if __name__ == '__main__':
                                                           # main function (doesn't execute on import)
                    26
                               print_hi('CS229')
                                                           # call function
                               functionInUtils()
                                                           # call imported function
                    28
                               obj = Bar(3)
                                                           # create object
                    29
                               obj.PrintX()
                                                           # call function using object
                    30
```

Live Demo in Jupyter Notebook

- Links:
- Notebook: Assignment Project Exam Help
- http://cs229.stanford.e/ph/wetga2021spring/notes2021spring/cs229-python-review-code.ipynb
- PDF Version: Add WeChat powcoder
 http://cs229.stanford.edu/notes2021spring/notes2021spring/python-review-code.pdf

Your friend for debugging

| Python Command | | Description |
|-----------------------------|---------|---|
| array.shape | Assignn | nent Project Exam Help |
| array.dtype | http | Shecket the start of the start |
| type(stuff) | Ado | d WeChat powcoder |
| import pdb; pdb.set_trace() | | Set a breakpoint (https://docs.python.org/3/library/pdb.html) |
| print(f'My name is {name}') | | Easy way to construct a message |

Good luck on your Assignment Project Exam Help HW/Project! https://powcoder.com

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Questions?