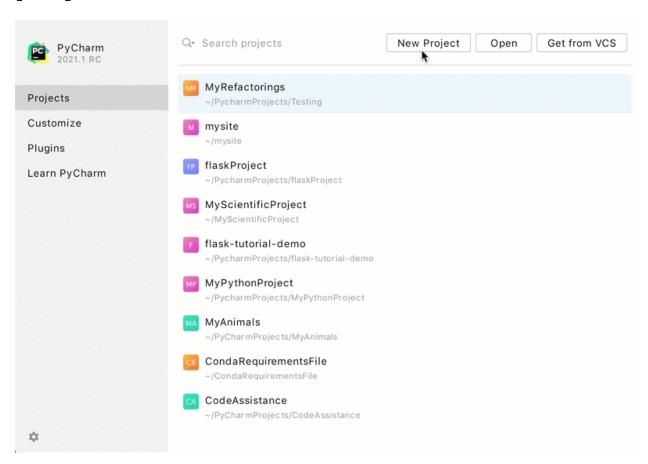
DEVELOP A PYTHON SCRIT

BY K.GAYATHRI 952319104012

DEVELOP A PYTHON SCRIPT

In the Project tool window, select the project root (typically, it is the root node in the project tree), right-click it, and select File | New Select the option Python File from the context menu, and then type the new filename. PyCharm creates a new Python file and opens it for editing.

Step 1. Create and run your first Python project



1. If you're on the Welcome screen, click New Project. If you've already got any project open, choose File | New Project from the main menu.

2. Although you can create projects of various types in PyCharm, in this tutorial let's create a simple Pure Python project. This template will create an empty project.

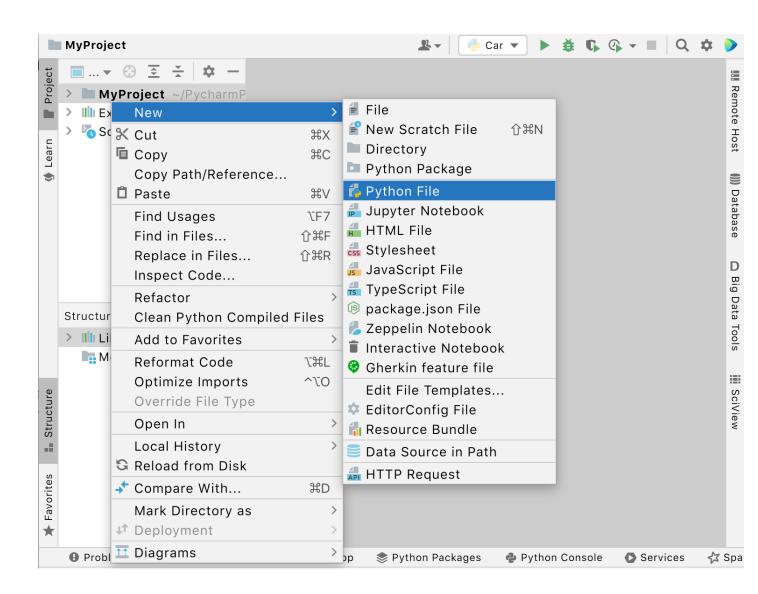
Pure Python Location: /Users/jetbrains/PyCharmProjects/MyProject Django C Flask Python Interpreter: New Virtualenv environment Google App Engine New environment using Virtualenv Pyramid ₩ Web2Py Location: /Users/jetbrains/PyCharmProjects/MyProject/venv **Ⅲ** Scientific Angular CLI 📗 ী /Library/Frameworks/Python.framework/Versions/3.6/bi 🔻 AngularJS Inherit global site-packages Bootstrap Make available to all projects F HTML5 Boilerplate 🤲 React Previously configured interpreter 🙀 React Native ▼ | | ... Interpreter: <No interpreter> Create a main.py welcome script Create a Python script that provides an entry point to coding in PyCharm. Cancel

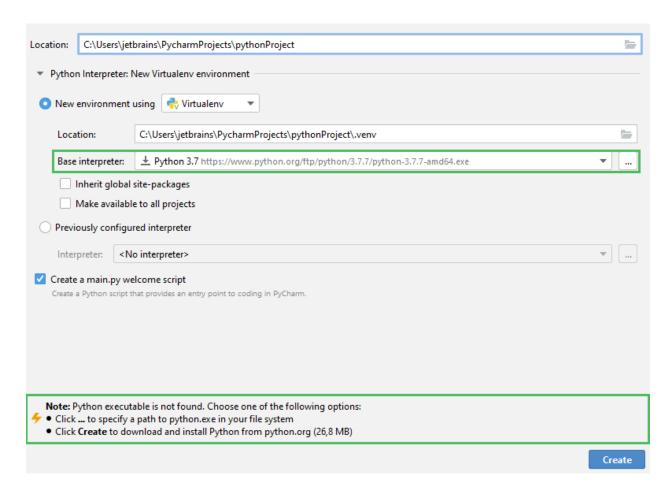
3. Choose the project location. Click button next to the Location field and specify the directory for your project.

- 4. Also, deselect the Create a main.py welcome script checkbox because you will create a new Python file for this tutorial.
- 5. Python best practice is to create a virtualenv for each project. In most cases, PyCharm create a new virtual environment automatically and you don't need to configure anything. Still, you can preview and modify the venv options. Expand the Python Interpreter: New Virtualenv Environment node and select a tool used to create a new virtual environment. Let's choose Virtualenv tool, and specify the location of the environment and the base Python interpreter used for the new virtual environment.
 - 6. Specify a path to the Python executable (in case of non-standard installation)
 - 7. Download and install the latest Python versions from python.org
 - 8. Install Python using the Command-Line Developer Tools (macOS only).

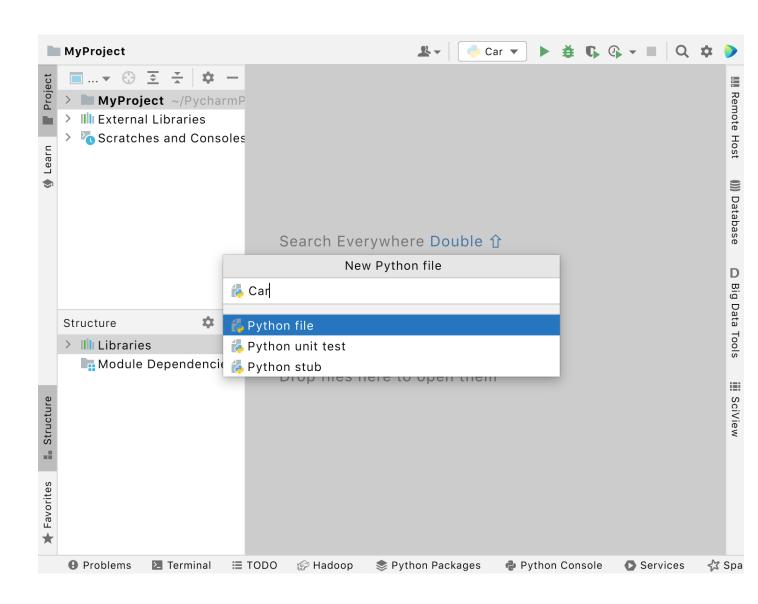
Create a Python file

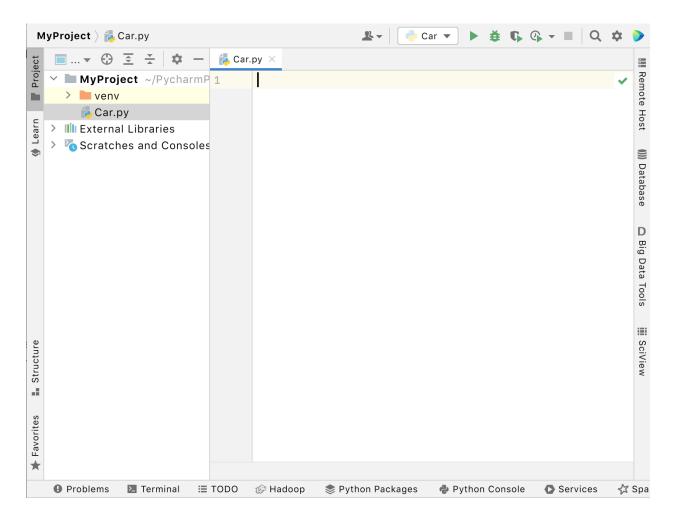
1. In the Project tool window, select the *project root* (typically, it is the root node in the project tree), right-click it, and select File | New





Select the option Python File from the context menu, and then type the new filename.

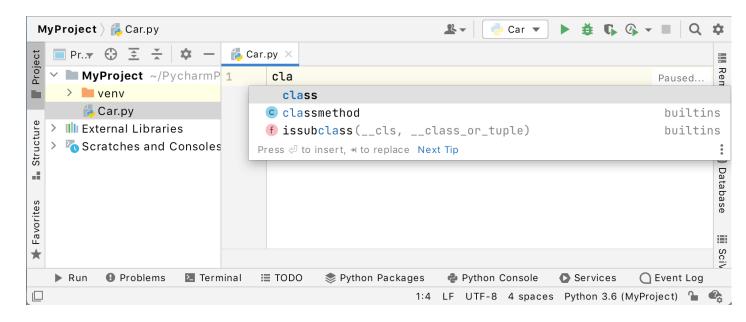




Edit Python code

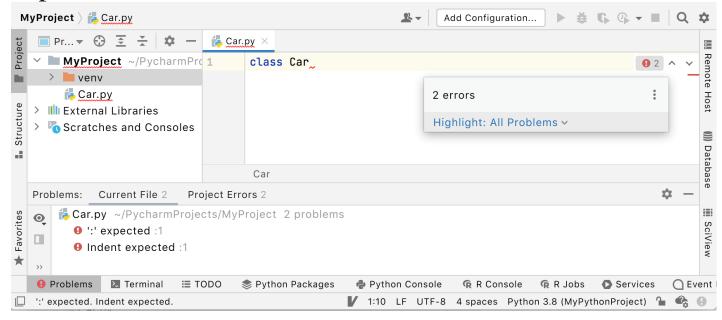
Let's start editing the Python file you've just created.

1. Start with declaring a class. Immediately as you start typing, PyCharm suggests how to complete your line:

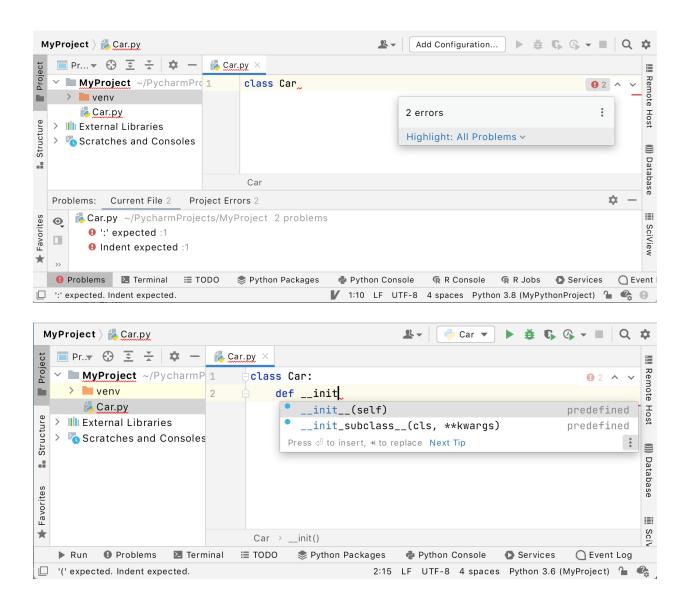


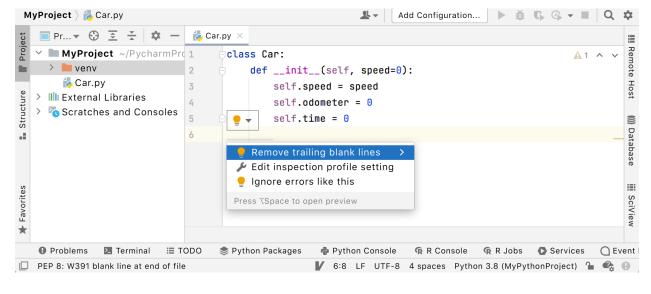
Choose the keyword class and type the class name, Car.

PyCharm informs you about the missing colon, then expected indentation:



Note that PyCharm analyses your code on-the-fly, the results are immediately shown in the inspection indicator in the upper-right corner of the editor. This inspection indication works like a traffic light: when it is green, everything is OK, and you can go on with your code; a yellow light means some minor problems that however will not affect compilation; but when the light is red, it means that you have some serious errors. Click it to preview the details in the Problems tool window





class Car:

```
def init (self, speed=0):
        self.speed = speed
        self.odometer = 0
        self.time = 0
    def say_state(self):
        print("I'm going {} kph!".format(self.speed))
    def accelerate(self):
        self.speed += 5
    def brake(self):
        if self.speed < 5:</pre>
            self.speed = 0
        else:
            self.speed -= 5
    def step(self):
        self.odometer += self.speed
        self.time += 1
    def average speed(self):
        if self.time != 0:
            return self.odometer / self.time
        else:
            pass
if name == ' main ':
```

```
My car = Car()
    Print ("I'm a car!")
    While True:
        Action = input ("What should I do? [A]celerate, [B]rake "
                 "Show [0]Dometer or show average [S]peed?").Upper ()
        If action not in "ABOS" or len (action) != 1:
            Print ("I don't know how to do that")
            Continue
        If action == 'A':
            My car accelerate()
        elif action == 'B':
            My car brake()
        elif action == '0':
            print("The car has driven {} kilometers"
format(my car.odometer))
        elif action == 'S':
            print("The car's average speed was {} kph"
format(My_car.average_speed()))
        My_car.step()
        My_car say_state
```

