

Hello World

Creating a "Hello, World" Program in PyCharm

Now that we have Python, Mamba, and PyCharm set up, let's create a simple "Hello, World" program. To do this, we will create a new Python file using the following steps:

1. Right-click on your `first-pycharm-project` folder.
2. Go to "New" and select "Python File."

Create New Python File

You'll now be prompted to choose a file name and select the "type" of Python file you want PyCharm to create. For this example, let's name the file `hello.py` and choose the file type as "Python file." While this might seem redundant, you'll see that there's a reason PyCharm offers the other file types.

Choose File Name and Type

Press Enter, and a new Python file named `hello.py` will be created. You can verify its creation by checking the files listed in the project tool window. The empty `hello.py` file will also open in the editor.

New File Added

Just like before, you can run the newly created Python file. However, since there's no code in it yet, you won't see any meaningful output. It will simply indicate that the program finished with exit code 0, as we'd expect no errors to occur seeing as we haven't even written any code yet.

Run Empty File

To create a "Hello, World" program, we'll use a `print()` statement. In Python, `print()` is a command that sends output to the console. Inside the brackets of `print()`, we provide the text we want Python to print. This text must be enclosed in quotation marks so that Python knows where it begins and ends. Here's what the code looks like:

```
print("Hello World")
```

If you type out the above code letter-by-letter, you'll notice that PyCharm's **auto-complete** feature can assist you. As you start typing "pri," PyCharm will suggest commands that contain that text. When "print" is selected you can then press Enter and PyCharm will automatically add the remaining characters, including the parentheses, and place your cursor between the brackets, where you can type what it is you want to print.

In this example, I waited until I had typed out "prin" before employing auto-complete's help, but I could have done it sooner. As you type out more, you narrow down PyCharm's list of potential ways for completing your code.

Auto-Complete

Now let's see what happens when I use auto-complete after just typing the letter "p."

faster-auto-complete.gif

Now I've saved myself a fair few keystrokes as PyCharm rightly guesses that I'm typing out "p" because I wish to use the print command.

Additionally, for writing the text, PyCharm will automatically create a closing quotation marks when you type an opening one, saving you time. This is also a feature frequently found in IDEs.

With the `print("Hello World")` code in place, you can run the program again. This time, you'll see meaningful output.

hello-world-output.png

Now you have successfully created and run your "Hello World" program in PyCharm. This is a simple yet essential step in getting started with Python programming. Now let's look at variables.

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