****

**كلية العلوم**

**قسم الفيزياء والفلك**

**College of Sciences**

**Department of**

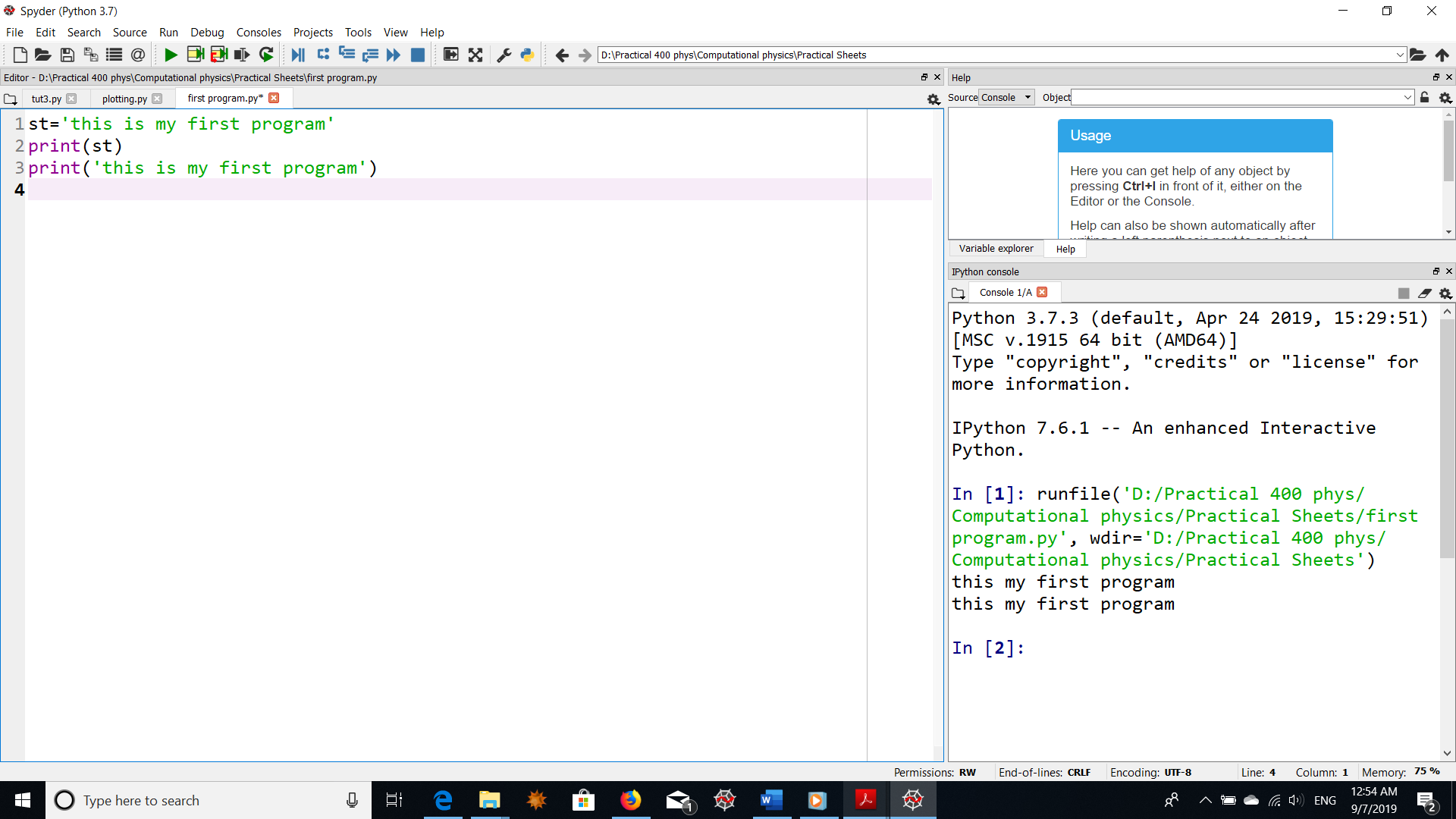
**Physics and Astronomy**

**Tutorial 1**

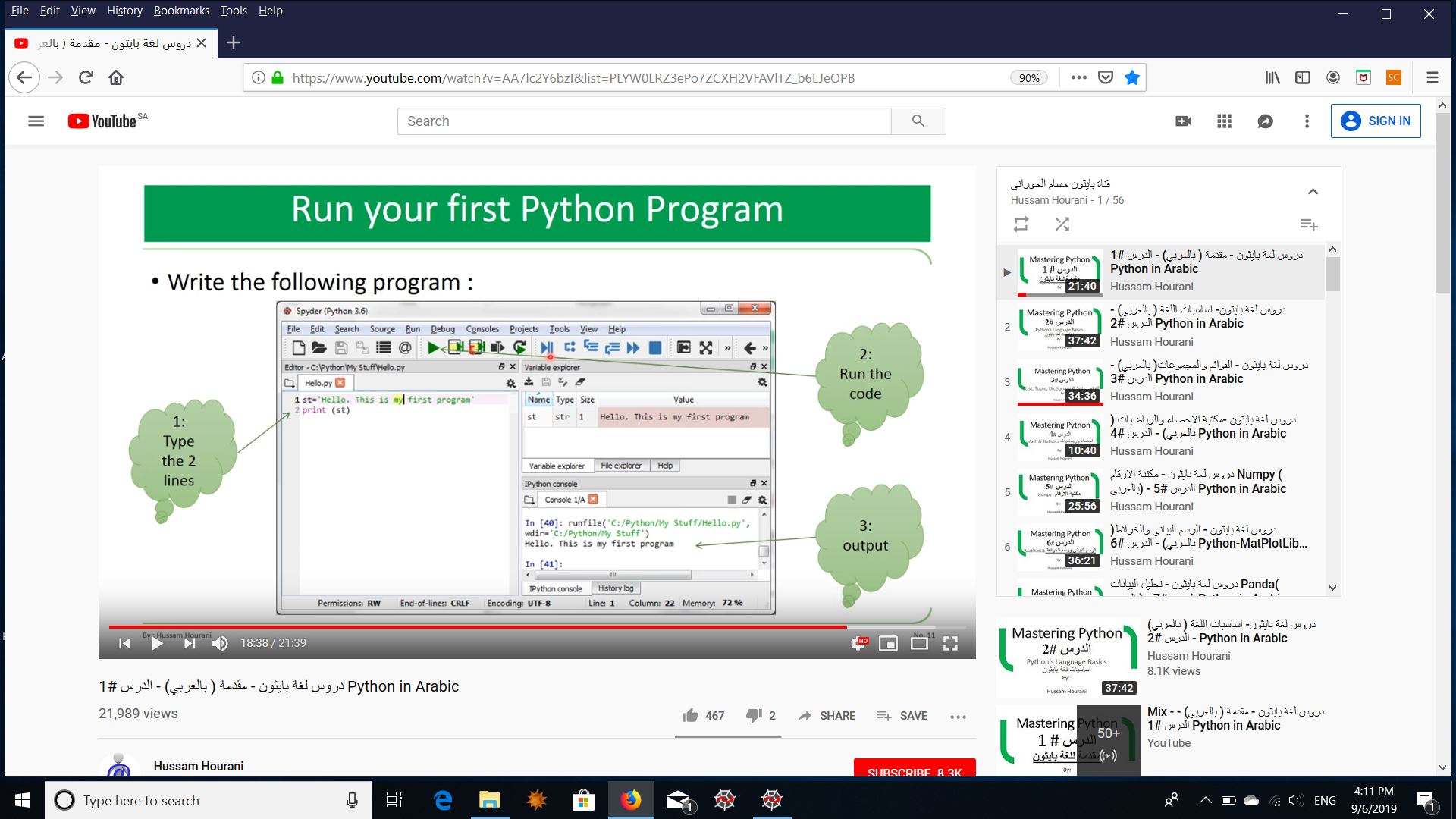
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| --- | --- | --- |
|  | **PHYS 400** | **Academic year 1444 H** |
| **Computational Physics** | **Semester 442** |

|  |  |  |
| --- | --- | --- |
| **Student’s Name** |  | **اسم الطالب** |
| **ID number** |  | **الرقم الجامعي** |



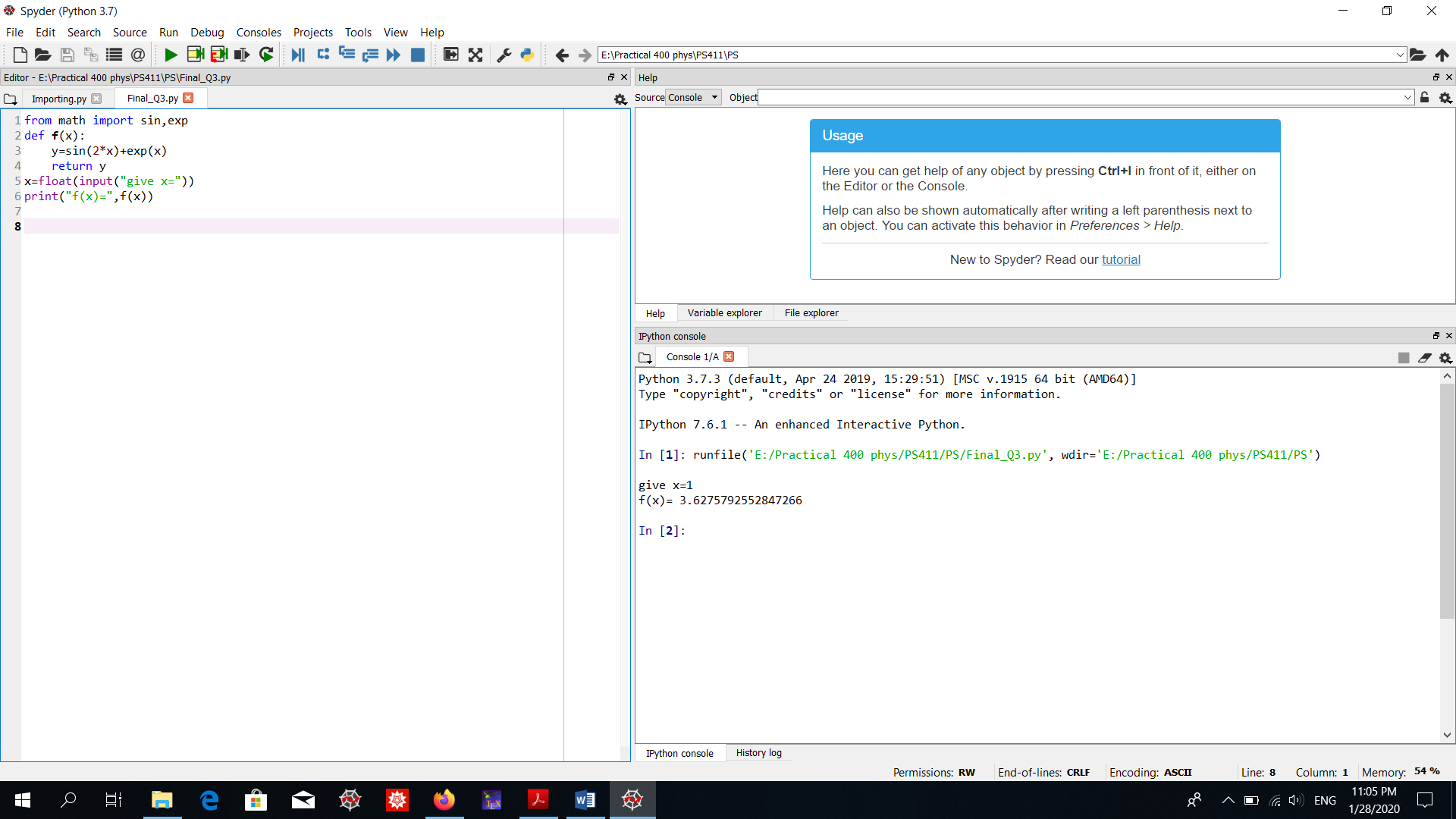
|  |  |
| --- | --- |
| **If statement** | **Loops** |
| \*press **Tab** to make indentation for print command. |  |



**Packages (Libraries):**

1. **Math:** includes all mathematical functions.
2. **NumPy: Numerical Python** Permits the use of fast, high-level multidimensional arrays in Python.
3. **Matplotlib(pylab): Mathematics Plotting Library.** A 2D and 3D graphics library that uses NumPy (Numerical Python

**Evaluation of a function:** Write and run a python code that gives the output of the function



**Fill the following table:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **0.5** | **1.0** | **1.5** | **2.0** | **2.5** | **3.0** |
|  |  |  |  |  |  |  |

* **Save the final program and name it T1**