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IMAM ABDULRAHMAN BIN
FAISAL UNIVERSITY
DEANSHIP OF PREPARATORY
YEAR AND SUPPORTING STUDIES
COMPUTER SCIENCE DEPARTMENT

وزارة التعليم جامعة الإمام عبد الرحمن بن فيصل عمادة السنة التحضيرية و الدراسات المساندة



Lab 1: Getting Started with Python

Objective(s)

- Install PyCharm and run your first script.
- Create and run .py files.

Tool(s)/Software

- PyCharm
 - or
- IDLE(Python 3.10 or above)
 - or
- https://www.online-python.com/

Description

Setup of PyCharm as the following:

- 1. Download python from www.python.org
- 2. Install Python.11 following the default settings:
 - You can choose to check the "Install launcher for all users (recommended)" or not either way should be OK
 - You can choose to "Add Python 3.11 to PATH" or not either way should be OK.
 - You can choose to "Customize Installation" if you want, especially if you want to install to a location other than the default one shown.
- 3. Now you have installed Python. That means you will be able to run Python files and use the **IDLE Python editor** on your computer.
- 4. Download PyCharm from www.jetbrains.com/pycharm. Choose Community version.
- 5. The setup wizard should have started. Click on "Next". We will install PyCharm in the suggested location. If you want to enter a new installation location, Click on "Browse", and when you are done selecting the location, click on "Next".
- 6. You can choose to select two options, after which you click on "Next"
 - You can create a desktop shortcut. This will put a link to PyCharm on your desktop.

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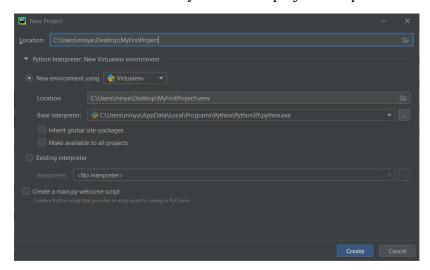
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- You can create associations. This means that when you open a python file (one with a .py extension), it will open in PyCharm.
- 7. Choose a start menu folder (we suggest leaving the default "Jetbrains" selected, but you can change it if you want) and click on "Install".
- 8. You have now installed **PyCharm** and open the it from your programs(start menu).
 - The first time you run PyCharm, you will get a message box asking about importing settings.
 - You can select "Do not import settings" and click on "OK".
 - The first time you run PyCharm, you will need to accept the privacy policy.
- 9. Click on "Create New Project".
- 10. You will need to select a **location**.
- 11. You can select where you want the project to be created (in our case we will create a project named MyFirstProject on the Desktop).
- 12. PyCharm should have found the **Python interpreter** you installed earlier. It will be selected if so.
- 13. Since we don't want now to create a welcome script, uncheck "Create a main.py welcome script", and click the "Create" Button when you have the project set up.



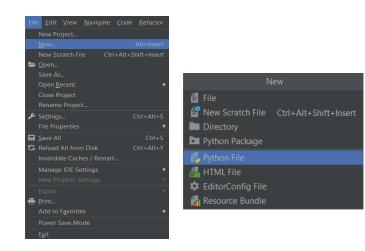
- 14. Try creating and running a program. Go up to the "File" menu and select "New".
- 15. Select "Python File".
- 16. Type the name of the file you want (for example "FirstTest") and press "Enter".

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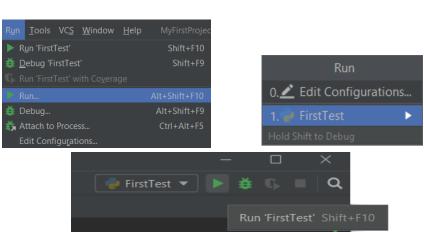






17. Go up to the "**Run**" menu and select "**Run**" (with the green arrow) to run your program.





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Write python programs that solve the following problems:

Q1:

Write a Python program that will display a greeting message with your name and city. You should assign your name and city to variables.

Example of output:

Hello, Ahmed from Dammam.

02:

Write a Python program that prints the square of 10.

Q3:

Write a Python program that prints the product of two numbers: A=5, B=3.

O4

Write a Python program that prints the area of triangle with base =10 and height =7. Wint Appendix 1/2*P*H.

Hint: Area of triangle=1/2*B*H

Q5:

Write a Python program that will display the time that will take if you want to travel by car from Dammam to Riyadh (Distance= 394 km) with a speed=110 km per hour.

Hint: Time=Distance/speed

Deliverables

- Submit the file via blackboard. If blackboard is not working, send an email.
- No submissions or late submissions are penalized (from participation marks).
- Name the document Python_Lab1_StudentName_Q5.
- You need to submit all questions in one file.

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