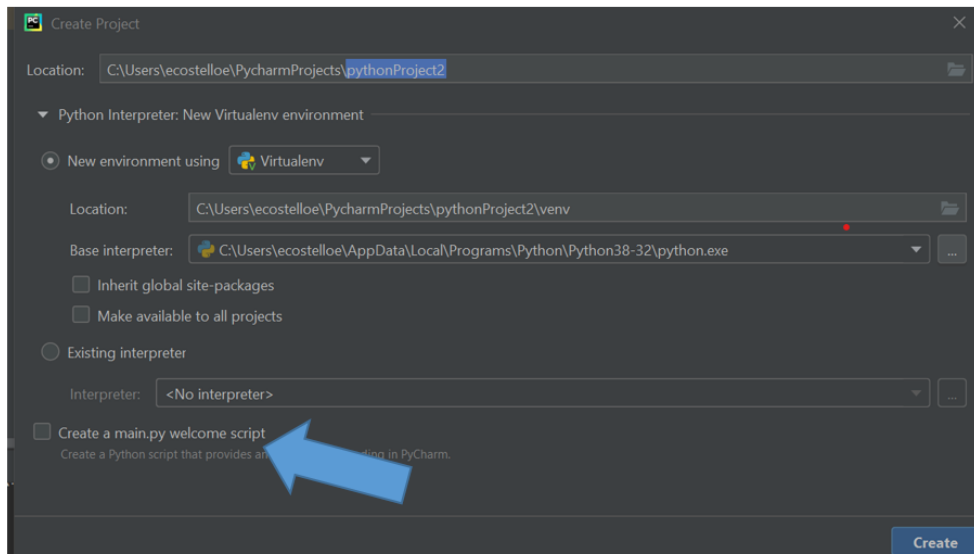# Software Development 1

Python Lab

Create a Python project, called **week2** and add a python file, called **week2exercises**, to it to include the following tasks. **Refer to the notes in Getting started with Python/PyCharm to create a project**.

Note that when creating a project you should have the "Create a main.py welcome script" option unticked as below:

- **Complete the following exercises by placing all the Python solutions in the week2exercises file.**
- **If you have any questions, ask your facilitator.**
- **Upload your week2exercises.py file at the end of the lab session.**

1. Write the Python code to print your name and address on separate lines.

2. Write the Python code to output the following exactly as seen:

3. Write the Python code to print a square and a triangle

4. Write the Python code to calculate and display the result of the following calculations:
   5+5
   5*5 , where * is multiplication

5. Add the following text, "The answer is : " to the outputs, for example what should appear is
   The answer is : 10
   The answer is : 25

There is no need to calculate the answer in the print statement, just output the text and the expected number.

6. Now, add additional code to generate the following output, this time calculating the result in the statement.
   The answer to 5 multiplied by 2 is : 10

7. Add a multi-line comment to the start of your program and include some single line comments for readability.

8. Generate an error by typing in primt("Game Over") and note the error message the interpreter gives you- it states that the interpreter doesn't recognise primt.

9. Display "Here it is" to the screen all on one line but use two print statements to do this.

10. Generate the following output, on next page, using print statements, hint use escape sequences,

```
         Credits
      \ \ \ \ \ \
          by
      Guido Rossum
      \ \ \ \ \ \

Special thanks goes to:
The great 'Monty Python' team who always were "fun"
```

11. Write the code that would produce the following output ,

```
If an adventurer returns from a successful quest and buys each of
his 6 companions 3 cups of coffee, how many cups were purchased?
```

12. Then write the print statement that would calculate and print the total as below

```
6 * 3 =  18
```