Analytical Programming

Instructions:

The objective of these practical exercises is to familiarise yourself with Jupyter Notebook (pl. check for installation: https://jupyter.org/install) and write basic Python programs.

1. Write a program that will output the text "Hello There" to screen. Create a String variable to store your name and an int variable to store your age. Print this out to screen using the Script mode.

2. Write a program that asks the user to enter a distance in kilometres and then converts that distance to miles (Miles = Kilometres * 0.6214).

3. Write a program that will ask a student for their first name and then for their surname. It should then ask the student to enter the int numerical grade they received in each of their three subjects.

   The program should then print out the full name of the student along with their average numerical grade (Use only a single print statement)

4. Write a program to calculate and display a person's body mass index (BMI). A persons BMI is calculated with the following formula:

   - BMI = (weight/ height^2) * 703

   Where weight in in pounds and height in in inches.

5. There are three seating categories at a stadium. For a football games, Class A seat's cost €25, Class B seat's cost €20 and Class C seat's cost €25. Write a program that asks how many tickets for each class of seats were sold, and then display the amount of income generated from ticket sales.