1) Create a new script file and save it as "calculations_1.m". Write MATLAB codes to do the following calculations in the above script separately. Add a comment before each part to indicate the question number such as "**% i.**"

    i. $\frac{3}{25}(4.1)(5^4) - 2.5 \times 1.25$

    ii. $\frac{0.55^3}{3^4 - 150} + \frac{81^{3/4}}{12} + 3^{-3}$

    iii. $120\left(5\sqrt{\frac{(2+\cos(120°))^3 - \ln(5.25)}{2.5e^{5/3} + \sin(\pi/6)}}\right)$

    iv.   Round the answer of part iii. to two decimal places using a suitable MATLAB function.

    v.   Find the ceiling and floor values of part iii. answer.

2) Create a new script file and save it as "calculations_2.m". Write MATLAB codes to do the following tasks in the above script separately. Add a comment before each part to indicate the question number such as "**% ii. a.**"

    i.   Define a variable "**radius**" with a value of your choice (in meters).

    ii.   Use arithmetic operations to calculate and display the following:
        a) The circumference of a circle with radius "**radius**"
        b) The area of a circle with radius "**radius**"
        c) The volume of a sphere with radius "**radius**"

    iii.   Define a variable "**temperature_celsius**" with a value of your choice (in degrees Celsius).

    iv.   Use arithmetic operations to calculate and display the following:
        a) The equivalent temperature in degrees Fahrenheit
        b) The equivalent temperature in Kelvin

    v.   Define variables "**mass**" and "**velocity**" with values of your choice (in kilograms and meters per second, respectively).

    vi.   Use arithmetic operations to calculate and display the kinetic energy of an object with mass "**mass**" and velocity "**velocity**".

Required formulas for the above calculations are given below:

$$C = 2\pi r, \quad A = \pi r^2, \quad V = \frac{4}{3}\pi r^3, \quad Fahrenheit = Celsius \times \frac{9}{5} + 32,$$

$$Kelvin = Celsius + 273.15, \quad Kinetic\ energy = \frac{1}{2}mv^2$$