ASSIGNMENT #4 (Computer)

Due Date:09.09.2021

Question:

Solve the initial value problem below by *Modified Euler Method* for h=0.0001 (step size).

$$dy/dx = 0.5(1+x)\ y^2$$

Initial Condition: $y(x_0=0) = 2$

Domain: $0 < x < 0.2$

Note: You can make use of any software like MATLAB, Python, Excel etc.