# Assignment 02

## Differential Equations

**Fall 2023***Class: BS-IV(CS) Sec B, C,D,E*

*Course Supervisor: Adnan Rauf*

*Solve the following boundary value problem in Google Collaboratory
And submit a pdf of your jupyter notebook with plot of the solution*

*Use solve_bvp*

$$y'' = y^3 + (x - 20)/20, \quad x \in [0, 60], \ y(0) = y(60) = 0.$$

*Solution should look like the following graph*