# Assignment #02

***Total 3 problems***

***Due date : December 13, 2023***

Upload on the PLATO system



1. **(Monte Carlo Simulation)** Solve one problem from the example problems in the lecture material (Radioactive decay, Random walk, Going to work).

2. **(Eigenvalue problem)** Solve one problem from the example problems in the lecture material (Three mass-four spring system, Bucking of a column).

3. **(Fourier analysis)** Solve one problem from the example problems in the lecture material (To be opened on November 22).

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**(General notes on the report)**

- Use any assumption and methods (tools) of your own.
- Summarize your result in a **PPT slide**, **max 10 pages** total (including cover).
- Your report must include, i) Problem definition, ii) Numerical methods, iii) Results & discussion iv) References, and v) the code used (Attach to the document as an embedded file).