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Lecture 5

Angular Momentum and Rotational Motion

Python Concepts

- Introduction to classes in Python (optional, for organizing code).
- Rotational kinematics and dynamics (moment of inertia, angular momentum).

Application

- Simulating the motion of a rotating object (e.g., a spinning disk) and calculating its angular momentum.
- Visualizing the effect of torque on the object's rotation.
- Homework: Extend the simulation to include the effect of external forces, such as friction.