

## Practice Questions for Day:3

Advanced Python

List of Programs

Day-3

32. Define a class Book with instance variables for title, author, and number of pages. Create methods to display the details of the book.
33. Create a class Employee with a class variable company\_name and instance variables for employee name and ID. Display employee details along with the company name.
34. Develop a class Circle with an instance variable for radius and methods to calculate and return the area and circumference.
35. Define a class Student with a class variable school\_name. Create a class method to change the school's name and an instance method to display student details along with the school name.
36. Implement a class MathOperations with static methods for addition, subtraction, multiplication, and division of two numbers.
37. Create a class Person with a constructor that initializes the name and age of a person. Add a method to display these details.
38. Develop a class Rectangle with a parameterized constructor that initializes the length and width. Add methods to calculate and return the area and perimeter.
39. Implement a class Movie with instance variables for title, director, and rating. Use both default and parameterized constructors to initialize these variables.