

Question: Class and Object in Python (Method Types)

Write a **Python program** to manage **Student information** using a class named Student.

The class should contain the following **data members**:

- roll_no
- name
- marks

The class must include **four types of methods**:

1. Take Nothing, Return Nothing

- Method: display_college()
- This method should print the college name.

2. Take Something, Return Nothing

- Method: set_data(roll_no, name, marks)
- This method should assign values to the instance variables.

3. Take Nothing, Return Something

- Method: get_marks()
- This method should return the marks of the student.

4. Take Something, Return Something

- Method: calculate_grade(marks)
 - This method should return the grade (A, B, C, or Fail) based on the marks.
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Question: Class and Object in Python (Employee Management)

Write a **Python program** to manage **Employee details** using a class named Employee.

The class should have the following **data members**:

- emp_id
- emp_name
- salary

The class must include **four different types of methods**:

1. Take Nothing, Return Nothing

- Method: show_company()
- This method should display the company name.

2. Take Something, Return Nothing

- Method: set_details(emp_id, emp_name, salary)

- This method should assign values to the data members.

3. Take Nothing, Return Something

- Method: get_salary()
- This method should return the employee's salary.

4. Take Something, Return Something

- Method: calculate_bonus(salary)
- This method should return the bonus amount based on salary:
 - Salary \geq 50,000 \rightarrow 10% bonus
 - Salary \geq 30,000 \rightarrow 7% bonus
 - Else \rightarrow 5% bonus