

## Assignment 4

classmate

Date \_\_\_\_\_

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- Q1. Create two classes "BankAect" and "Interest". Consider "BankAect" as outer class and "Interest" as inner classes. Calculate "Simple Interest" ~~with~~ and display the value. Apply two approaches to do the problem.
- 1) Using user input without constructor
  - 2) Using values as instance variables
  - 3) Using default constructor.
- Q2. Apply the concept of initialization through reference to print the details of student.
- 1) Student ID
  - 2) Student name
- Q3. Apply the concept of initialization of instance variables through methods. Apply the concept on the given problem statement 2.
- Q4. Apply the concept of parameterised constructor to find the area of Rectangle.
- Q5. The Calender class is a class that provides methods for converting between a specific instance and in time and a set of calender fields such as YEAR, MONTH, DAY-OF-MONTH. You are given a date. You have to write a method getDay() which returns the day on that date. To simplify your task
- Example      month = 8  
                    day = 14  
                    year = 2017
- The method will return MONDAY.



Q6. Create a class named Student with the following specifications:

- An instance variable named scores to hold a student 5 exam scores
- A void input() function that reads 5 integers and save them to scores.
- An int calculate TotalScore() function that returns the sum of the student's scores.

Constraints  $1 \leq n \leq 100$

$0 \leq \text{exam score} \leq 50$

### Sample Input

The first line contains n, the number of students in class. The n subsequent lines contain each student's 5 exam grades for the semester.

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30 40 45 10 10

40 40 40 10 10

50 20 30 10 10

### Sample O/P

Average of the scores.

Example

month = 8

year = 19

year = 2015

The method will return Monday.