SET A

1. Write a program in Java to estimate the sum of the following series for a given n.

$$2^2 + 4^2 + 6^2 + \cdots \cdots \cdots + (2n)^2 = \frac{2}{3}n(n+1)(2n+1)$$

2. Write a program in Java that computes an employee's gross pay and net pay for a given hour and rate using the following formulas:

   Gross = Hours * Rate
   Net = Gross + Bonus – Tax

   The bonus is 7% of gross pay and the tax rate is 5% of gross pay.

SET B

1. Write a program in Java to estimate the sum of the following series for a given n.

$$1^2 + 3^2 + 5^2 + \cdots \cdots \cdots + (2n-1)^2 = \frac{n}{3}(4n^2 - 1)$$

2. Write a Java program that reads a seller's fixed salary and the sale's total made by himself in a month. Considering that this seller receives 15% over the sale's total as bonus and needs to pay 12% tax based on the fixed salary. Write the final salary (total) of this seller with two decimal places.

   Hints: Final Salary = Fixed Salary + Bonus -Tax

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