

Ahsanullah University of Science and Technology
Course Title: Object Oriented Programming Lab
Course Number: CSE1206
Fall 2020

Offline: 2 Section: B2

Total Marks: 20

1. Project Name: CostEstimation (contains class CostEstimation which has the main method) Create 2 separate classes: Book , TotalPricing	1
2. Design the Book class: a. private variables: numberOfPages (int) , costPerPage (int) b. Create the parameterized constructor taking both private variables. c. Declare the getter setter methods for the private variables.	1+2+4 =7
3. Design the TotalPricing class: a. Create variable: public Book bookObj; b. Create the constructor taking Book object as the parameter.	1+2= 3
4. Inside TotalPricing class create a void method named: finalCost() Here calculate the quality number of a Book using the formula: <p style="text-align: center;">costPerPage X numberOfPages</p> Then print this total price inside this method. You will need to use the variable bookObj of Book class and the getter methods.	2
5. Create objects of Book and TotalPricing classes. Initialize using the parameterized constructors. Also call the finalCost() method. *Extra marks if you take user input.	2+1 = 3
6. Inside the finalCost() method, check the total final cost as follows: Check if square value of the final cost ends with the same digits as the original final cost number. If so then print " Pricing is too high ". Otherwise print " Pricing is okay "	4

Total: 20

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For example,

Suppose,

costPerPage = 94 and numberOfPages = 4

The total cost = $94 * 4 = 376$

Square of 376 = $376^2 = 141376$

Since the square value ends with 376 which is our original value. So we print "Pricing is too high"

Sample Input 1	Sample Output
Number of pages : 125 Cost per page : 5	Total price : 625 Pricing is too high

Sample Input 2	Sample Output
Number of pages : 215 Cost per page : 3	Total price : 645 Pricing is ok