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

Offline: 2 Section: C1

Total Marks: 20

Project Name: BatsmanSelection	1
(contains class BatsmanSelection which has the main method)	
Create 2 separate classes: Batsman , Committee	
2. Design the Batsman class :	1+2+4
a. private variables: totalRuns (int) , totalOuts (int)	=7
 b. Create the parameterized constructor taking both private variables. 	
c. Declare the getter setter methods for the private variables.	
3. Design the Committee class:	1+2=
 Create variable: <u>public</u> Batsman batObj; 	3
b. Create the constructor taking Batsman object as the parameter.	
4. Inside Committee class create a void method named: calculateAverage()	2
Here calculate the average of a Batsman using the formula:	
totalRuns / totalOuts	
Then print this average inside this method.	
You will need to use the variable batObj of Batsman class and the getter	
methods.	
5. Create objects of Batsman and Committee classes. Initialize using the	2+1
parameterized constructors. Also call the calculateAverage() method.	= 3
*Extra marks if you take user input.	
6. Inside the calculateAverage() method, check the selection process as follows:	4
Calculate the sum of each digit raised to the power of their position.	
If this sum is equal to the original average number then print "Batsman selected"	
Otherwise print "Batsman not selected"	
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Total: 20

For example, Suppose, totalRuns = 3645 and totalOuts = 27 Then average = 3645 / 27 = 135 Sum of the square of 135 is = $1^1 + 3^2 + 5^3 = 1 + 9 + 125 = 135$ Which is equal to the original average number. So you print "Batsman selected" **You can use Math.pow(value, power)**

Sample Input 1	Sample Output
Total Runs : 3645 Total Outs : 27	Average of Batsman is: 135 Batsman selected

Sample Input 2	Sample Output
Total Runs : 3000 Total Outs : 31	Average of Batsman is: 96 Batsman not selected

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