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

Offline: 2 Section: C2

Total Marks: 20

1. Project Name: TestEmployee (contains the main method) Create 2 separate classes: **Developer , HROfficer**	**1**
2. Design the **Developer class:** a. **private** variables**: totalProjects** (int) , **totalMonths** (int) b. Create the parameterized constructor. c. Declare the getter setter methods for the private variables.	**1+2+4 =7**
3. Design the **HROfficer class:** a. Create variable: **public Developer devObj;** b. Create the constructor taking Developer as the parameter.	**1+2= 3**
4. Inside **HROfficer** class create a **void** method named: **checkPerformance()** Here calculate the final performance of a developer using the formula: **totalProjects * totalMonths + 100** Then print this performance result inside this method. You will need to use the variable **devObj** of Developer class and the getter methods**.**	**2**
5. Create objects of **Developer** and **HROfficer classes inside the** TestEmployee class**.** Initialize using the parameterized constructors. Also call the **checkPerformance()** method. ***Extra marks if you take user input.**	**2+1 = 3**
6. Inside the **checkPerformance()** method, check the final performance as follows: **Calculate the sum of the cube of each digit of the final performance.** If this sum is an **odd number** then print “Developer’s performance is good" Otherwise print “Developer’s performance is bad”	**4**
Total:	**20**

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For example,
Suppose **totalProjects** = 5 and **totalMonths** = 18
Then final performance = 5*18 + 100 = 190
Sum of the square of 190 is = 1^3 + 9^3 + 0^3 = 1 + 729 +0 = 730
82 is an even number. So you print “Developer’s performance is bad”
You can use Math.pow(value, power)

Sample Input 1	Sample Output
Total Projects : 5 Total Months : 18	Performance result is: 190 Developer’s performance is bad

Sample Input 2	Sample Output
Total Projects : 3 Total Months : 11	Performance result is: 133 Developer’s performance is good

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