## BITS PILANI, DUBAI CAMPUS DUBAI INTERNATIONAL ACADEMIC CITY, DUBAI

**FIRST SEMESTER 2024 – 2025** 

**COURSE:** F213 (Object Oriented Programming)

**COMPONENT:** Practical Sheet 7 **DATE:** 7<sup>th</sup> October 2024

Q.1 Write a java program to store information for a showroom that has a class name a Car with attributes:

Vehicle id: String

Cost: Float[]; stores base, exercise duty and sales tax for each car

Total: float; stores total after calling calc total

Grand total: float; stores price after subtracting discount

calc total() calculates total price (Base + Exercise duty + Sales tax)

calc grand total() calculates the price after a discount of a 10% Diwali discount.

In main method, Create an array of objects of Car.

Now call calc\_total() to calculate total. Then after call calc\_grand\_total() to calculate the price after the discount. Now Create a method which prints the details of the car with the highest grand price.

Note the array of object store the detail of n number of employees.

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1

n-1

Car 1 Car 2

Car n

BMW 001 255000 100000 70000 Base Exercise Sales Duty Tax

- Q 2 Write a Java program which passes an int array as an argument, in the method we run a loop to traverse the passed array to look for all duplicate elements in the array, it then stores the element and count of all duplicate elements in a new array. This method then returns the new array back to main which prints the duplicate elements and their count.
- Q 3 Write a Java program which prints a table of a number. E.g. printTable(5) you need to print. Read the number n from the user.

1		2	3	4	5	6	7	8	9	10	
2		4	6	8	10	12	14	16	18	20	
3		6	9	12	15	18	21	24	27	30	
4	ı	-8	12	<del>16</del>	_20_	24	28	32	_ 36	40	
5		10	15		25	30	35	40	45	50	
						END					