CT-01

Write a class **Pizza** which will have the following formats.

radius: double price: double
comparePizza(): void getCost(): double

Now write a class named **FoodTest** to test your code (contains main method).

i. Print a line, "Please enter a choice: 1. Price of pizza.
2. Compare areas of pizza. "

ii. Then take **an integer number** as a user input from keyboard. If the integer is 1, call the getCost() method. In the method, print a line, "Enter radius and price per inch of pizza:". Then take **two double values** from user. Show the cost with the formula**, cost= price * radius**. (**You have to use constructor**).

iii. If the integer is 2, call comparePizza(). In the method, take two arrays double[] radius and int[] unit of size 2. The first array takes input of the two pizza's radius' and the later one takes the corresponding unit of the pizza's (how many pizzas of that radius you're taking). Then find total_area=area of a pizza*unit which will determine which pizza will be larger (considering they have the same price). Hint. Area of the Pizza, **Area=3.14 * radius * radius**. If the first pizza is larger, print "**Take pizza 1**" else print "**Take pizza 2**".

CT-01

Write a class **Car** which will have the following formats.

distance: double fuel: double
getMileage (): double getCost(): double getAverage():void

Now write a class named **VehicleTest** to test your code (contains main method).

i. In this class at first, print a line, "Enter distance travelled and fuel consumption of car:". Then take **two double values** from user. (**You have to use constructor**).

ii. Again, print a line, "Please enter a choice: 1. Mileage of Car. 2. Cost of fuel. 3. Maximum Cost"

iii. Then take **an integer number** as a user input from keyboard. If the integer is 1, show the Mileage of the Car using the formula, **Mileage= distance/fuel**; If choice is 2, print the cost with the formula**, cost= fuel* 4** (in dollar). **You must use constructor for initialization.** If choice is 3, take 4 integers from user which are the last 4 week's fuel cost. Find the maximum of the cost and print.