Question1: A transportation company owns several cars and wants to calculate the driving range for each car based on its fuel tank capacity and fuel efficiency.

Write a Java program that starts by asking the user to enter the number of cars. Then use a **loop** to get the values of **tankCapacity** and **milesPerGallon** for each car.

1. Ask the user to enter the **number of cars**.
2. If the entered umber is zero, print the following message: **"You inserted a zero, bye"**, then exit the program.
3. Otherwise: Use a **loop** to read the required values for each car from the user.
4. Calculate the **driving range** for each car using the formula:

   Driving range = tankCapacity × milesPerGallon
5. Print the driving range for each car.

Notes: Assume that the car travels at a constant speed and that fuel efficiency remains consistent throughout the driving range.

For example, if the input **number of cars is 1**, we should see an output as follows:

```
Please enter the number of cars: 1
Please enter the capacity of the tank: 15
Please enter the miles per gallon: 25
This means the car can drive 375 miles on a full tank.
```

(handwritten annotations)

5.25

Import Java util. Scanner;

class test {

Public static main void (String [ ] args) {   (1)

Scanner input = new Scanner(System.in);

int num = 1;
num = input.nextInt();   (0.75)
if (umber == 0) {   (1.25)
System.out.println { " You inserted a zero, bye"};   (0.5)
else if {
double Driving range = tankCapacity * milesPerGallon;   (1.25)
System.out.println { " driving" + range + " for each car"};   (0.5)

{ Capacity = 15;
  milesPerGallon = 25;
  else 3
  if 3