**BYAGARI PAVAN PBL ID: J\_251890123**

Interface-new features

1. **Create an interface Vehicle with a default method message() that returns nothing and prints "Inside Vehicle".**

**Create an interface FourWheeler with a default method message() that returns nothing and prints "Inside FourWheeler".**

**Create a class Car implementing these two interfaces.**

**In this class, Override the message() method and call the message() method of the Vehicle interface using super keyword.**

**Instantiate the class, call the message method and observe the output.**

// Vehicle.java interface Vehicle {

default void message() {

System.out.println("Inside Vehicle");

}

}

// FourWheeler.java interface FourWheeler {

default void message() {

System.out.println("Inside FourWheeler");

}

}

// Car.java

class Car implements Vehicle, FourWheeler { @Override

public void message() {

Vehicle.super.message(); }

}

// Test class

public class TestInterface {

public static void main(String[] args) { Car car = new Car();

car.message();

}

}

**Output :**

Inside Vehicle

1. **Create an interface Test with an abstract method "int myFunction". This function takes three integer parameters.**

**Write a program to create two Test reference variables t1 and t2.**

**t1 should add three integer parameters and t2 should multiply three integer parameters, using lambda expression.**

**Call myFunction using t1 and t2 reference variables, by passing three integer values and print the result.**

@FunctionalInterface interface Test {

int myFunction(int a, int b, int c);

}

public class LambdaExample {

public static void main(String[] args) {

// t1: Adds three integers Test t1 = (a, b, c) -> a + b + c;

// t2: Multiplies three integers Test t2 = (a, b, c) -> a \* b \* c;

// Call with sample values

int sum = t1.myFunction(10, 20, 30);

int product = t2.myFunction(2, 3, 4);

System.out.println("Sum of numbers: " + sum); System.out.println("Product of numbers: " + product);

}

}

**Output**

Sum of numbers: 60

Product of numbers: 24