```
public interface ICar
                                                    void start();
                                                    void stop();
                                                    int pricePerKm();
                                                                            public class MarutiCar implements ICar {
                                                                                @Override
                                                                                public void start() {
                                                                                    System.out.println(x: "Maruti Car starts logic");
System.out.println(x: "Hyundai Car starts logic");
                                                                                @Override
                                                                                public void stop() {
                                                                                    System.out.println(x: "Maruti Car stops logic");
System.out.println(x: "Hyundai Car stop logic");
                                                                                @Override
                                                                             public int pricePerKm() {
```

public class HyundaiCar implements ICar {

@Override

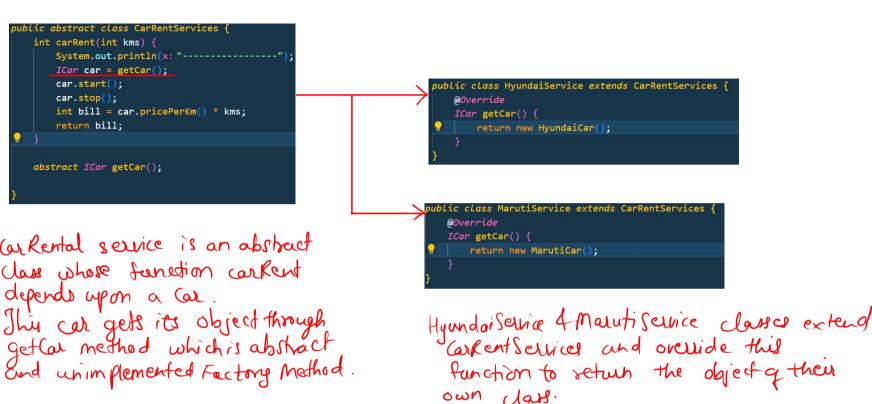
@Override

@Override

public void start() {

public void stop() {

public int pricePerKm() { return 10;



This is called Factory method. design Paten.

```
class Test {
   Run | Debug
   public static void main(String[] args) {
        CarRentServices hyundaiCarRent = new HyundaiService();
        System.out.println(hyundaiCarRent.carRent(kms: 10));

        CarRentServices marutiCarRent = new MarutiService();
        System.out.println(marutiCarRent.carRent(kms: 10));
    }
}
```

Hyundai Car starts logic
Hyundai Car stop logic
100
----Maruti Car starts logic
Maruti Car stops logic
120

No longer abstract class public class CarRentServices { public interface ICarFactory { private ICarFactory cf: ICar getCar(); void setCarFactory(ICarFactory cf) { this.cf = cf: public class HyundaiCarFactory implements ICarFactory @Override int carRent(int kms, ICarFactory cf) { public ICar getCar() { System.out.println(x: "-----"); return new HyundaiCar(); ICar car = cf.getCar(); car.start(); car.stop(); int bill = car.pricePerKm() * kms; public class MarutiCarFactory implements ICarFactory { return bill; @Override public ICar getCar() {

```
class Test {
   Run|Debug
   public static void main(String[] args) {
        CarRentServices hyundaiCarRent = new CarRentServices();
        HyundaiCarFactory hyundaiCar = new HyundaiCarFactory();
        System.out.println(hyundaiCarRent.carRent(kms: 10,hyundaiCar));

        CarRentServices marutiCarRent = new CarRentServices();
        HyundaiCarFactory marutiCar = new HyundaiCarFactory();
        System.out.println(marutiCarRent.carRent(kms: 10, marutiCar));
    }
}
```

Car rept Services gets a car object from outside Factory method and sets it using set carfactory which it uses in the function of car Rent.

return new MarutiCar();

Bridge Pattern applied over Factory Method Convorts it into Abstract factory.

(creating Interface socket for Factory classes so that multiple objects of Factory Classes can be used with different implementation without burst of classes solved by bridge Pattern.

2Factores I db = H. Set Db() I Expat = eff. Set & Fand() 47716a

 $5 \times 5 = 25$ but we only create 5 + 5 + 1 + 1 = 12classes.