**CODE :**

**//Interface Car**

**package** FactoryDesign;

**public** **interface** Car

{

**Public abstract** **void** CarSpec();

}

**//Class SUV**

**package** FactoryDesign;

**public** **class** SUV **implements** Car

{

@Override

**public** **void** CarSpec()

{

System.***out***.println("\nModel : XUV700"

+ "\nPrice : 14 Lakh"

+ "\nType : Turbo Petrol With Direct Injection (TGDi)"

+ "\nCapacity : 2.0 L"

+ "\nMax. Power : 147kW @5000 r/min"

+ "\nMax. Torque : 380 Nm @ 1750-3000 r/min"

+ "\nTransmission Type : 6 MT / 6 AT");

}

}

**//Class Sedan**

**package** FactoryDesign;

**public** **class** Sedan **implements** Car

{

@Override

**public** **void** CarSpec()

{

System.***out***.println("Model : Honda City 4th Gen"

+ "\nEngine displacement : 1498 cc"

+ "\nMileage : 17.8kmpl and 18.4 kmpl"

+ "\nSeating capacity : 5"

+ "Price : Rs. 11.6 lakh to Rs. 15.3 lakh");

}

}

**//Class HatchBack**

**package** FactoryDesign;

**public** **class** HatchBack **implements** Car

{

@Override

**public** **void** CarSpec()

{

System.***out***.println("\nModel : Chevrolet Sail Hatchback"

+ "\nPrice : 5 Lakh"

+ "\nFuel Type : PetrolEngine "

+ "\nDisplacement (cc)1199No. of cylinder 4 Max Power (bhp@rpm) 82.5bhp@6000 rpmMax "

+ "\nSeating Capacity : 5 "

+ "\nFuel Tank Capacity : 42.0");

}

}

**//Class CarFactory**

**package** FactoryDesign;

**public** **class** CarFactory

{

**public** Car getNewCar(**int** ch)

{

**if**(ch==1)

{

**return** **new** SUV();

}

**else** **if**(ch==2)

{

**return** **new** HatchBack();

}

**else** **if**(ch==3)

{

**return** **new** Sedan();

}

**return** **null**;

}

}

**//Class FactoryMain**

**package** FactoryDesign;

**import** java.util.Scanner;

**public** **class** FactoryMain

{

**public** **static** **void** main(String[] args)

{

**int** ch;

CarFactory obj = **new** CarFactory();

Scanner sc = **new** Scanner(System.***in***);

**do**

{

System.***out***.println("\n1.SUV \n2.HatchBack \n3.Sedan \n4.Exit \nEnter Your Choice > > > ");

ch=sc.nextInt();

Car carobj = obj.getNewCar(ch);

**switch**(ch)

{

**case** 1:

carobj.CarSpec();

**break**;

**case** 2:

carobj.CarSpec();

**break**;

**case** 3:

carobj.CarSpec();

**break**;

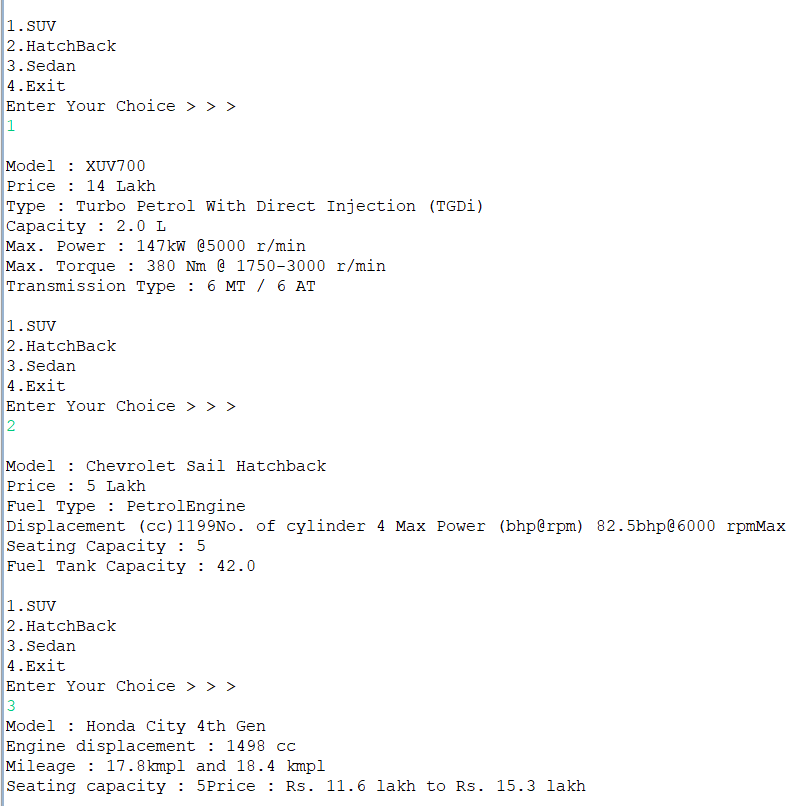
}

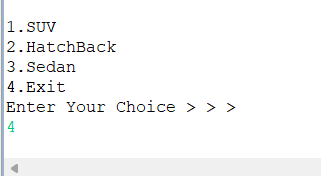
}**while**(ch!=4);

}

}

**OUTPU >>>**

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