```
ROLL NO:- S501
AIM:-Implement Factory design pattern for the given context.
package exp10;
public interface Car
   public void buildCar();
package exp10;
public class Hatchback implements Car
   public void buildCar()
       System.out.println("Hatchback car build process complete");
   }
package exp10;
public class Sedan implements Car
   public void buildCar()
        System .out.println("Sedan car build process complete");
   }
       }
package exp10;
public class SUV implements Car
   public void buildCar()
       System.out.println("SUV car build process complete");
package exp10;
public class CarAssembler
   public void buildCar(Car carType)
        carType.buildCar();
package exp10;
```

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```
public class CarFactory
   public Car getCar(String carType)
    Car car=null;
    CarAssembler assembler=new CarAssembler();
    if(carType.compareToIgnoreCase("Hatchback")==0)
        car=new Hatchback();
        assembler.buildCar(car);
    if(carType.compareToIgnoreCase("Sedan")==0)
        car=new Sedan();
        assembler.buildCar(car);
    if(carType.compareToIgnoreCase("SUV")==0)
        car=new SUV();
        assembler.buildCar(car);
    return car;
   }
       }
package exp10;
public class TestFactory
       public static void main(String[] args)
      CarFactory factory=new CarFactory();
      SUV suv=(SUV)factory.getCar("SUV");
      Sedan se=(Sedan)factory.getCar("Sedan");
     Hatchback hb=(Hatchback)factory.getCar("Hatchback");
}
OUTPUT:-
SUV car build process complete
Sedan car build process complete
Hatchback car build process complete
```