**package** assignments;

**class** Product1{

String name;

**double** price;

String coupon;

**public** Product1(String name, **double** price, String coupon) {

**this**.name=name;

**this**.price=price;

**this**.coupon=coupon;

}

}

**class** Validator{

**public** String validateCoupon(Product1 p) **throws** Exception{

**if**(p.coupon.indexOf('-')==-1)

**throw** **new** InvalidCouponException("Invalid Coupon");

**if**(p.coupon.indexOf('-')!=-1)

{

String[] s =p.coupon.split("-");

**if**(!(s[0].equals(p.name)&&Integer.*parseInt*(s[1])>=10&&Integer.*parseInt*(s[1])<=25))

**throw** **new** InvalidCouponException("Invalid Coupon");

}

**return**("Valid Coupon");

}

**public** **double** netPrice(Product1 p) {

**double** netprice;

String[] s =p.coupon.split("-");

**double** discount=Integer.*parseInt*(s[1]);

netprice =p.price-(discount/100\*p.price);

**return** netprice;

}

}

**class** InvalidCouponException **extends** Exception{

**public** InvalidCouponException(String msg) {

**super**(msg);

}

}

**public** **class** question8 {

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

Product1 obj = **new** Product1("IPhone",25000,"IPhone-10");

Validator val =**new** Validator();

**try** {

String valCop = val.validateCoupon(obj);

System.***out***.println("valCop = "+valCop);

}

**catch**(Exception e) {

}

**double** price = val.netPrice(obj);

System.***out***.println("price = "+price);

}

}