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JAVA PROGRAMMING

ASSGINMENT 4:

PROGRAM:

ITEM.JAVA

```
public class Item{
    String id;
    String name;
    double maximumRetailPrice;
    double discountPrice;
    float discountPercent;
    int quantity;
    String manufactureDate;
    String expiryDate;
    double netPrice;
    void calculateDiscountPrice(){
        discountPrice = (maximumRetailPrice * quantity) - (maximumRetailPrice *
(discountPercent/100));
    }
    void print(){
        System.out.printf("\n          ITEM DESCRIPTION          ");
        System.out.printf("\nid"+"%20s",id);
        System.out.printf("\nname"+"%20s",name);
        System.out.printf("\nmaximumRetailPrice"+"%9s",("RS." +
maximumRetailPrice));
        System.out.printf("\ndiscountPrice"+"%27s",("RS." + discountPrice));
        System.out.printf("\ndiscountPercent"+"%7s",discountPercent);
        System.out.printf("\nquantity"+"%13s",quantity);
        System.out.printf("\nmanufactureDate"+"%11s",manufactureDate);

        System.out.printf("\n-----");
    }
}
```

```
}  
}
```

SOLUTION.JAVA

```
public class Solution{  
    public static void main(String arg[]){  
        Item i=new Item();  
        Item e=new Item();  
        i.id = "101";  
        i.name = "priya";  
        i.maximumRetailPrice = 22.16;  
        i.quantity = 15;  
        i.manufactureDate = "12/3/12";  
        i.expiryDate = "14/3/17";  
        i.discountPercent = 0.2f;  
  
        e.id = "102";  
        e.name = "hemas";  
        e.maximumRetailPrice = 21.16;  
        e.quantity = 15;  
        e.manufactureDate = "15/3/12";  
        e.expiryDate = "2/3/17";  
        e.discountPercent = 0.5f;  
  
        i.calculateDiscountPrice();  
        i.print();  
        e.calculateDiscountPrice();  
        e.print();  
    }  
}
```

OUTPUT:

```
C:\Users\students\Documents\kavitha>javac Item.java
C:\Users\students\Documents\kavitha>javac Solution.java
C:\Users\students\Documents\kavitha>java Solution
```

```
      ITEM DESCRIPTION
id      101
name    priya
maximumRetailPrice RS.22.16
discountPrice      RS.332.35567999789487
discountPercent    0.2
quantity          15
manufactureDate    12/3/12
-----
      ITEM DESCRIPTION
id      102
name    hemas
maximumRetailPrice RS.21.16
discountPrice      RS.317.2942000023648
discountPercent    0.5
quantity          15
manufactureDate    15/3/12
-----
```