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ROLL NO:15L124

DEPT:ECE-'A'

$TASK \rightarrow 4$

PROGRAM:

//IMPLEMENTATION OF CLASS AND OBJECTS

Item.java

SOURCE CODE:

```
public class Item {
   String id;
    String name;
    double maximumRetailPrice;
    float discountPercent;
    double discountPrice;
    double netPrice;
    int quantity;
    String manufactureDate;
    String expiryDate;
    void calculateDiscountPrice() {
       discountPrice = (maximumRetailPrice * quantity) - (maximumRetailPrice *
(discountPercent / 100));
    void print(){
       System.out.println("\n -----");
       System.out.printf("\nID"+"%35s", id);
       System.out.printf("\nNAME"+"%38s", name);
       System.out.printf("\nMAXIMUM RETAIL PRICE"+"%22s",("Rs." +
maximumRetailPrice));
       System.out.printf("\nDISCOUNT PERCENT"+"%21s", discountPercent + "%");
       System.out.printf("\nQUANTITY"+"%26s", quantity);
       System.out.printf("\nMANUFACTURE DATE"+"%27s", manufactureDate);
       System.out.printf("\nEXPIRY DATE "+"%31s", expiryDate);
       System.out.printf("\nDISCOUNT PRICE"+"%39s",("Rs." + discountPrice));
       System.out.println();
```

Solution.java

SOURCE CODE:

```
public class Solution {
    public static void main(String[] args) {
        Item item;
        item = new Item();
        item.id="12AA";
        item.name="CHOCOLATE";
        item.maximumRetailPrice=395.59;
        item.discountPercent=4.5f;
        item.quantity=4;
        item.manufactureDate="20-10-2017";
        item.expiryDate="21-11-2018";
        item.calculateDiscountPrice();
        item.print();
        Item item1;
        item1 = new Item();
        item1.id="16FI";
        item1.name="ICE CREAM";
        item1.maximumRetailPrice=250.25;
        item1.discountPercent=10.2f;
        item1.quantity=6;
        item1.manufactureDate="18-10-2018";
        item1.expiryDate="22-12-2019";
        item1.calculateDiscountPrice();
        item1.print();
```

OUTPUT:

```
C:\Users\students\Documents\karthi>javac Item.java
C:\Users\students\Documents\karthi>javac Solution.java
C:\Users\students\Documents\karthi>java Solution
    -----ITEM DETAILS-----
ID
NAME
                              CHOCOLATE
                            Rs.395.59
MAXIMUM RETAIL PRICE
DISCOUNT PERCENT
QUANTITY
MANUFACTURE DATE
                             20-10-2017
EXPIRY DATE
                             21-11-2018
DISCOUNT PRICE
                           Rs.1564.5584492926298
    -----ITEM DETAILS-----
ID
                             16FI
NAME
                             ICE CREAM
MAXIMUM RETAIL PRICE
                             Rs.250.25
DISCOUNT PERCENT
                            10.2%
QUANTITY
                             6
                             18-10-2018
MANUFACTURE DATE
EXPIRY DATE
                             22-12-2019
DISCOUNT PRICE
                             Rs.1475.974500477314
C:\Users\students\Documents\karthi>∏
```