

Assignment Problem 5

PGDCA II Semester

PS02CDCA33: Object Technology

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Superstore Billing

1. Define a class of Prod.

Also define another class of Prod with structure as follows:

int itemcode → code of an item

String itemname → name of the item

integer qnty → units of the item

float price → price of the item

2. Define at least one constructor having above four parameters of the Prod class.

3. Also define print method that prints the bill as follows:

void print() → prints information about an item such as item code, name, price as follows.

Item code	Item Name	Qnty	Price	Total
101	Chocolate	3	10	30
201	Ice cream	2	20	40
301	Parle G	2	15	30
Total Amount				100
Net amount to be paid after adding 2% of VAT				102

4. In the main class define the 3 products called P1, P2 and P3 and Initialize them using the constructor developed. Use the values given in the above table.

5. Print the bill of all the items with 2% of VAT and grand total.

Solution

```
package prod;
```

```
public class Prod {
```

```
int itemcode;
```

```
String itemname;
```

```
int qnty;
```

```
double price;
```

```
Prod (int itemcode, String itemname, int qnty, double price)
```

```
{ this.itemcode=itemcode;
```

```
  this.itemname= itemname;
```

```
  this.qnty= qnty;
```

```
  this.price= price;
```

```
}
```

```
static void printhead()
```

```
{ System.out.println("-----");
```

```
  System.out.println("Item Code \t Item Name\tQnty \tPrice \t Total");
```

```
}
```

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```

static void printfooter()
{ System.out.println("-----"); }

void print()
{   System.out.println("-----");
    System.out.println( itemcode + "\t\t" + itemname + "\t" + qnty + "\t" + price + "\t"
+ (qnty*price));
}

public static void main(String[] args) {
    Prod P1= new Prod(101,"Chocolate", 3, 10.00);
    Prod P2= new Prod(201,"Icecream", 2, 20.00);
    Prod P3= new Prod(301,"Parle Gold", 2, 15.00);

    printhead();
    P1.print();
    P2.print();
    P3.print();
    printfooter();

    double total = (P1.qnty*P1.price ) + (P2.qnty*P2.price ) + (P3.qnty*P3.price );
    double VAT = total*2/100;
    double grand_total= total+ VAT;

    System.out.println("\t\t\t\t\t Total: " + total);
    System.out.println("\t\t\t\t\t VAT: " + VAT);
    System.out.println("\t\t\t\t\t Net Amount: " + grand_total);
    printfooter();
} // end of main
} // end of class

```

Sample Output

```

-----
Item Code    Item Name  Qnty  Price  Total
-----
101          Chocolate   3     10.0   30.0
-----
201          Icecream    2     20.0   40.0
-----
301          Parle Gold   2     15.0   30.0
-----
                                Total: 100.0
                                VAT: 2.0
                                Net Amount: 102.0
-----

```