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**Batch: MCA B**

**Date: 24/05/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 16**

**Aim**

Prepare bill with the given format using calculate method from interface.

Order No.

Date :

Product Id Name Quantity unit price Total

101    A   2   25   50

102    B   1  100   100

        Net. Amount     150

**Procedure**

import java.util.Scanner;

interface calc{

    void calculate();

}

class bill implements calc{

    String date,name,p\_id;

    int quantity;

    double unit\_price,total,namount=0;

    Scanner sc = new Scanner(System.in);

    public void getdata(){

        System.out.println("\nEnter product id:");

        p\_id = sc.nextLine();

        System.out.println("Enter product name:");

        name = sc.nextLine();

        System.out.println("Enter the Quantity:");

        quantity = sc.nextInt();

        System.out.println("Enter the unit price:");

        unit\_price = sc.nextDouble();

    }

    public void calculate(){

        total = quantity \* unit\_price;

    }

    public void display(){

        System.out.println(p\_id+"\t\t"+name+"\t\t"+quantity+"\t\t"+unit\_price+"\t"+total);

    }

}

public class BillInterface {

    public static void main(String[] args) {

        int n,i;

        double namount=0,t;

        int ran;

        String date;

        t = Math.random() \*1000000;

        ran = (int) t;

        Scanner sc = new Scanner(System.in);

        System.out.println("Order no. #"+ran);

        System.out.print("Enter the date:");

        date = sc.nextLine();

        System.out.println("Enter how many products are there:");

        n = sc.nextInt();

        bill ob[] = new bill[n];

        for(i=0;i<n;i++)

            ob[i] = new bill();

        for(i=0;i<n;i++){

            ob[i].getdata();

            ob[i].calculate();

        }

        System.out.println("Date:"+date);

        System.out.println("Product Id  Name   Quantity  unit price  Total ");

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

        for(i=0;i<n;i++){

            ob[i].display();

            namount += ob[i].total;

        }

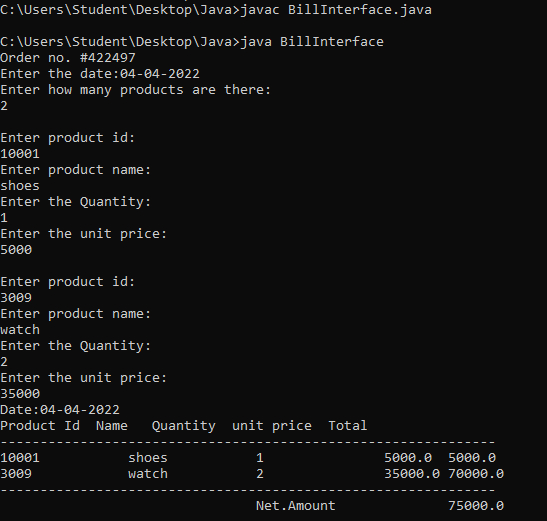
        System.out.println("--------------------------------------------------------------");

        System.out.println("\t\t\t\tNet.Amount\t\t"+ namount);

    }

}

**Output Screenshot**

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