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Dessert.java

```
package day4;

public abstract class Dessert {
    protected double quantity;
    protected String flavour;

    public Dessert(double quantity,String flavour)
    {
        this.quantity=quantity;
        this.flavour=flavour;
    }

    public abstract double calculatePrice();
    public abstract String displayName();
}
```

Candies.java

```
package day4;

public class Candies extends Dessert{
    protected double candyPrice;

    public Candies(double quantity,String flavour) {
```

```

        super(quantity, flavour);
        if(flavour.equalsIgnoreCase("chocolate"))
            this.candyPrice=150;
        else if (flavour.equalsIgnoreCase("vanila"))
            this.candyPrice=200;
        else if (flavour.equalsIgnoreCase("mango"))
            this.candyPrice=300;
        else
            this.candyPrice=100;
    }

    @Override
    public double calculatePrice() {
        return (quantity/1000)*candyPrice;
    }

    @Override
    public String displayName() {
        return "Dessert Type : Candy , Dessert Flavour : "+ flavour+ ", Quantity
in Grams : "+ quantity+ ", And Price per Kg = "+candyPrice;
    }
}

```

Cookies.java

```

package day4;

public class Cookies extends Dessert{
    double cookiePrice;
    protected String name="Cookie";
    public Cookies(double quantity,String flavour) {
        super(quantity, flavour);
        if(flavour.equalsIgnoreCase("chocolate"))
            this.cookiePrice=180;
        else if (flavour.equalsIgnoreCase("vanila"))
            this.cookiePrice=240;
        else if (flavour.equalsIgnoreCase("mint"))
            this.cookiePrice=300;
    }
}

```

```

        else
            this.cookiePrice=120;
    }

    @Override
    public double calculatePrice() {
        return quantity*(cookiePrice/12);
    }

    @Override
    public String displayName() {
        return "Dessert Type : Cookies , Dessert Flavour : "+ flavour+ ", Quantity
in nos : "+ quantity+ ", And Price per Dozzen = "+cookiePrice;
    }
}

```

Icecream.java

```

package day4;

public class Icecream extends Dessert{
    double iceCreamPrice;
    protected String name="Ice Cream";
    public Icecream(double quantity,String flavour) {
        super(quantity,flavour);
        if(flavour.equalsIgnoreCase("chocolate"))
            this.iceCreamPrice=40;
        else if (flavour.equalsIgnoreCase("vanila"))
            this.iceCreamPrice=50;
        else if (flavour.equalsIgnoreCase("butterscotch"))
            this.iceCreamPrice=60;
        else
            this.iceCreamPrice=35;
    }

    @Override
    public double calculatePrice() {
        return quantity*iceCreamPrice;
    }
}

```

```
    @Override
    public String displayName() {
        return "Dessert Type : Ice Cream , Dessert Flavour : "+ flavour+ ", Quantity
in nos : "+ quantity+ ", And Price per piece = "+iceCreamPrice;
    }
}
```

Cart.java

```
package day4;

public class Cart {
    protected double totalBill;

    public void addToCart(Dessert dessert)
    {
        System.out.println(dessert.displayName());
        System.out.println("Price for Current order is :
"+dessert.calculatePrice());
        totalBill += dessert.calculatePrice();
    }

    public void displayTotalBill(){
        System.out.println("Total Bill of your order is " + totalBill);
    }
}
```

Store.java

```
package day4;

import java.util.Scanner;

public class Store {
    public static void main(String[] args) {
        Cart cart = new Cart();
    }
}
```

```

Scanner sc = new Scanner(System.in);
int count=0;

while (true)
{
    System.out.println("***** Welcome to The Store *****");
    System.out.println("What do you Want to Buy \nCandies \nCookies \nIceCream \nExit");
    String item = sc.next();
    count++;
    if (item.equalsIgnoreCase("candies"))
    {
        System.out.println("Candies Menu \nFlavour
Price/Kg\nChocolate    150/kg\nvanila        200/kg\nmango
300/kg\nnormal        100/kg");
        System.out.println("Enter flavour : ");
        String flavour = sc.next();
        System.out.println(" Enter Quantity in Grams : ");
        double quantity = sc.nextDouble();
        Dessert d1 = new Candies(quantity, flavour);
        cart.addToCart(d1);
    }
    else if (item.equalsIgnoreCase("cookies"))
    {
        System.out.println("Cookies Menu \nFlavour
Price/dozzen\nChocolate    180/dozzen\nvanila        240/dozzen\nmint
300/dozzen\nnormal        120/dozzen");
        System.out.println("Enter flavour : ");
        String flavour = sc.next();
        System.out.println(" Enter Quantity in Pieces : ");
        double quantity = sc.nextDouble();
        Dessert d1 = new Cookies(quantity, flavour);
        cart.addToCart(d1);
    }
    else if (item.equalsIgnoreCase("icecream"))
    {
        System.out.println("IceCream Menu \nFlavour
Price/piece\nChocolate    40/piece\nvanila        50/piece\nbitterscotch
60/piece\nnormal        35/piece");
    }
}

```



```

IceCream
Exit
cookies
Cookies Menu
Flavour    Price/dozen
Chocolate  180/dozen
vanilla    240/dozen
mint       300/dozen
normal     120/dozen
Enter flavour :
min
Enter Quantity in Pieces :
10
Dessert Type : Cookies , Dessert Flavour : min, Quantity in nos : 10.0, And Price per Dozen = 120.0
Price for Current order is : 100.0
Do You Want to Continue Shopping
1.Yes  2.NO
yes
***** Welcome to The Store *****
What do you Want to Buy
Candies
Cookies
IceCream
Exit
cookies
Cookies Menu
Flavour    Price/dozen
Chocolate  180/dozen
vanilla    240/dozen
mint       300/dozen
normal     120/dozen
Enter flavour :

```

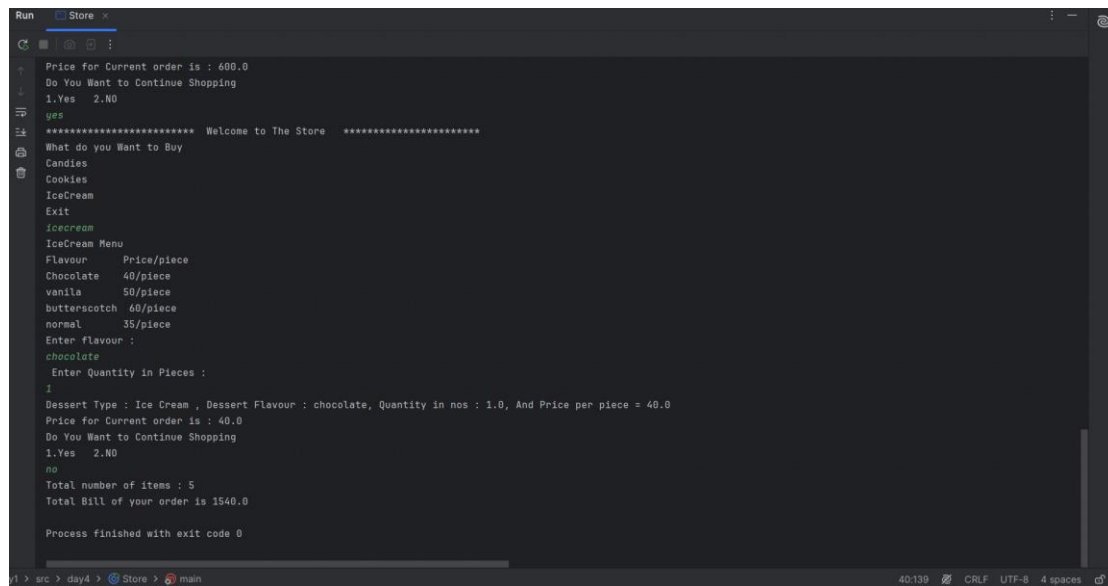
c > day4 > Store > main 40:139 CRLF UTF-8 4 spaces

```

Run Store
normal     120/dozen
Enter flavour :
mint
Enter Quantity in Pieces :
20
Dessert Type : Cookies , Dessert Flavour : mint, Quantity in nos : 20.0, And Price per Dozen = 300.0
Price for Current order is : 500.0
Do You Want to Continue Shopping
1.Yes  2.NO
yes
***** Welcome to The Store *****
What do you Want to Buy
Candies
Cookies
IceCream
Exit
Icecream
Icecream Menu
Flavour    Price/piece
Chocolate  40/piece
vanilla    50/piece
butterscotch 60/piece
normal     35/piece
Enter flavour :
butterscotch
Enter Quantity in Pieces :
10
Dessert Type : Ice Cream , Dessert Flavour : butterscotch, Quantity in nos : 10.0, And Price per piece = 60.0
Price for Current order is : 600.0
Do You Want to Continue Shopping
1.Yes  2.NO
yes

```

y1 > src > day4 > Store > main 40:139 CRLF UTF-8 4 spaces



```
Run Store x
Price for Current order is : 600.0
Do You Want to Continue Shopping
1.Yes  2.NO
yes
***** Welcome to The Store *****
What do you Want to Buy
Candies
Cookies
IceCream
Exit
IceCream
IceCream Menu
Flavour    Price/piece
Chocolate  40/piece
vanilla    50/piece
butterscotch 40/piece
normal     35/piece
Enter flavour :
chocolate
Enter Quantity in Pieces :
1
Dessert Type : Ice Cream , Dessert Flavour : chocolate, Quantity in nos : 1.0, And Price per piece = 40.0
Price for Current order is : 40.0
Do You Want to Continue Shopping
1.Yes  2.NO
no
Total number of items : 5
Total Bill of your order is 1540.0

Process finished with exit code 0

y1 > src > day4 > Store > main 40:139 CRLF UTF-8 4 spaces
```

OUTPUT in Text:

```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition
2024.2.2\lib\idea_rt.jar=4553:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2.2\bin"
-Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath
C:\Users\DAI.STUDENTSDC\Desktop\Abhsihek\Java\Day1\out\production\Java day4.Store
```

```
***** Welcome to The Store *****
```

What do you Want to Buy

Candies

Cookies

IceCream

Exit

candies

Candies Menu

Flavour	Price/Kg
---------	----------

Chocolate	150/kg
-----------	--------

vanila	200/kg
--------	--------

mango 300/kg

normal 100/kg

Enter flavour :

mango

Enter Quantity in Grams :

1000

Dessert Type : Candy , Dessert Flavour : mango, Quantity in Grams : 1000.0, And Price per Kg = 300.0

Price for Current order is : 300.0

Do You Want to Continue Shopping

1.Yes 2.NO

yes

***** Welcome to The Store *****

What do you Want to Buy

Candies

Cookies

IceCream

Exit

cookies

Cookies Menu

Flavour	Price/dozen
---------	-------------

Chocolate	180/dozen
-----------	-----------

vanila	240/dozen
--------	-----------

mint	300/dozen
------	-----------

normal	120/dozen
--------	-----------

Enter flavour :

min

Enter Quantity in Pieces :

10

Dessert Type : Cookies , Dessert Flavour : min, Quantity in nos : 10.0, And Price per Dozzen = 120.0

Price for Current order is : 100.0

Do You Want to Continue Shopping

1.Yes 2.NO

yes

***** Welcome to The Store *****

What do you Want to Buy

Candies

Cookies

IceCream

Exit

cookies

Cookies Menu

Flavour	Price/dozzen
---------	--------------

Chocolate	180/dozzen
-----------	------------

vanila	240/dozzen
--------	------------

mint	300/dozzen
------	------------

normal	120/dozzen
--------	------------

Enter flavour :

mint

Enter Quantity in Pieces :

20

Dessert Type : Cookies , Dessert Flavour : mint, Quantity in nos : 20.0, And Price per Dozen = 300.0

Price for Current order is : 500.0

Do You Want to Continue Shopping

1.Yes 2.NO

yes

***** Welcome to The Store *****

What do you Want to Buy

Candies

Cookies

IceCream

Exit

Icecream

IceCream Menu

Flavour	Price/piece
---------	-------------

Chocolate	40/piece
-----------	----------

vanila	50/piece
--------	----------

butterscotch	60/piece
--------------	----------

normal	35/piece
--------	----------

Enter flavour :

butterscotch

Enter Quantity in Pieces :

10

Dessert Type : Ice Cream , Dessert Flavour : butterscotch, Quantity in nos : 10.0, And Price per piece = 60.0

Price for Current order is : 600.0

Do You Want to Continue Shopping

1.Yes 2.NO

yes

***** Welcome to The Store *****

What do you Want to Buy

Candies

Cookies

IceCream

Exit

icecream

IceCream Menu

Flavour	Price/piece
---------	-------------

Chocolate	40/piece
-----------	----------

vanila	50/piece
--------	----------

butterscotch	60/piece
--------------	----------

normal	35/piece
--------	----------

Enter flavour :

chocolate

Enter Quantity in Pieces :

1

Dessert Type : Ice Cream , Dessert Flavour : chocolate, Quantity in nos : 1.0, And Price per piece = 40.0

Price for Current order is : 40.0

Do You Want to Continue Shopping

1.Yes 2.NO

no

Total number of items : 5

Total Bill of your order is 1540.0

Process finished with exit code 0