

Project Explorer

- > javaBasics_NRIFT (in HelloWorldProj) [HelloWorldProj master]
 - > JRE System Library [JavaSE-17]
 - > src
 - > (default package)
 - > assignment1
 - Bus.java
 - Calculator.java
 - Car.java
 - Road.java
 - TesterCalculator.java
 - Truck.java
 - Vehicle.java
 - > assignment2
 - ContractEmployee.java
 - Employee.java
 - PermanentEmployee.java
 - TesterEmployee.java
 - > day4
 - > day5

Console

<terminated> TesterCalulator [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (26

11.54

9.78

9.41

Calculator.java

```
1 package assignment1;
2
3 public class Calculator {
4     public double findAverage(double a,double b,double c) {
5         // TODO Auto-generated method stub
6         return Math.round(((a+b+c)/3)*100.0)/100.0;
7     }
8     public double findAverage(double a,double b,double c,double d) {
9         // TODO Auto-generated method stub
10        return Math.round(((a+b+c+d)/4)*100.0)/100.0;
11    }
12    public double findAverage(double a,double b,double c,double d,double e) {
13        // TODO Auto-generated method stub
14        return Math.round(((a+b+c+d+e)/5)*100.0)/100.0;
15    }
16
17
18    public static void main(String[] args) {
19        // TODO Auto-generated method stub
20
21    }
22
23 }
24
```

TesterCalculator.java

```
1 package assignment1;
2
3 public class TesterCalulator {
4     public static void main(String[] args) {
5         Calculator c1=new Calculator();
6         System.out.println(c1.findAverage(1.232,25.5,7.9));
7         System.out.println(c1.findAverage(1.232,25.5,7.9,4.5));
8         System.out.println(c1.findAverage(1.232,25.5,7.9,4.5,7.9));
9     }
10 }
11 }
12
```

Vehicle.java ×

```
1 package assignment1;
2
3 public class Vehicle {
4     String colour,model;
5     int noOfWheels;
6
7     public String getColour() {
8         return colour;
9     }
10
11     public void setColour(String colour) {
12         this.colour = colour;
13     }
14
15     public String getModel() {
16         return model;
17     }
18
19     public void setModel(String model) {
20         this.model = model;
21     }
22
23     public int getNoOfWheels() {
24         return noOfWheels;
25     }
26
27     public void setNoOfWheels(int noOfWheels) {
28         this.noOfWheels = noOfWheels;
29     }
30
31     public Vehicle(String colour, String model, int noOfWheels) {
32         super();
33         this.colour = colour;
34         this.model = model;
35         this.noOfWheels = noOfWheels;
36     }
37
38     public static void main(String[] args) {
39         // TODO Auto-generated method stub
40     }
41 }
42
43 }
```

Car.java ×

```
1 package assignment1;
2
3 public class Car extends Vehicle {
4     String subType;
5
6     public Car(String colour, String model, int noOfWheels, String subType) {
7         super(colour, model, 4);
8         this.subType = subType;
9     }
10
11     public void display() {
12         // TODO Auto-generated method stub
13         System.out.println(colour+" "+subType);
14     }
15
16     public String getSubType() {
17         return subType;
18     }
19
20     public void setSubType(String subType) {
21         this.subType = subType;
22     }
23 }
24
25 }
```

Bus.java ×

```
1 package assignment1;
2
3 public class Bus extends Vehicle {
4     int noOfSeats;
5
6     public Bus(String colour, String model, int noOfWheels, int noOfSeats) {
7         super(colour, model, 4);
8         this.noOfSeats = noOfSeats;
9     }
10
11     public void display() {
12         // TODO Auto-generated method stub
13         System.out.println(colour+" "+subType+" "+noOfSeats);
14     }
15
16     public int getNoOfSeats() {
17         return noOfSeats;
18     }
19
20     public void setNoOfSeats(int noOfSeats) {
21         this.noOfSeats = noOfSeats;
22     }
23 }
24
25 }
```

Truck.java ×

```
1 package assignment1;
2
3 public class Truck extends Vehicle {
4     float weight;
5
6     public Truck(String colour, String model, int noOfWheels, float weight) {
7         super(colour, model, 4);
8         this.weight = weight;
9     }
10
11     public void display() {
12         // TODO Auto-generated method stub
13         System.out.println(colour+" "+subType+" "+noOfSeats+" "+weight);
14     }
15
16     public float getWeight() {
17         return weight;
18     }
19
20     public void setWeight(float weight) {
21         this.weight = weight;
22     }
23 }
24
25 }
```

Road.java ×

```
1 package assignment1;
2
3 public class Road {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Car c=new Car("red","civic","sedan");
8         Bus b=new Bus("red","tata",8,36);
9         Truck t=new Truck("blue","cybertruck",4,2000);
10        b.display();
11        c.display();
12        t.display();
13    }
14
15 }
16 }
```

Console ×

```
<terminated> Road [Java Application] C:\Program Files\Java\jdk-17\bin\javaw
36 seater red Bus of Model: tata
```

```
red civic Car of Subtype:sedan
```

```
4 wheeler blue Truck of Model: cybertruck and weight: 2000
```


Order.java ×

```
1 package stock;
2 import material.Accessories;
3
4 public class Order {
5
6     public static void main(String[] args)
7     {
8         Laptops l1=new Laptops(15,100,"leno
9         Laptops l2=new Laptops(15,101,"leno
10        Laptops l3=new Laptops(15,102,"leno
11        Laptops l4=new Laptops(15,103,"asus
12        Laptops l5=new Laptops(15,104,"lg",
13        Accessories a1=new Accessories(15,2
14        Accessories a2=new Accessories(15,2
15        Accessories a3=new Accessories(15,2
16        Accessories a4=new Accessories(15,2
17        Accessories a5=new Accessories(15,2
18        Accessories a6=new Accessories(15,2
19        Accessories a7=new Accessories(15,2
20        Accessories a8=new Accessories(15,2
21        Accessories a9=new Accessories(15,2
22        Accessories a10=new Accessories(15,2
23
24        // TODO Auto-generated method stub
25
26        l1.order(5);
27        l1.order(8);
28        l2.order(2);
29    }
30
31 }
```

Laptops.java ×

```
11
12
13 public Laptops(int quantity, int uId, S
14         int ram, int storage,double pri
15         super(quantity,3);
16         this.uId = uId;
17         this.brand = brand;
18         this.model = model;
19         this.processor = processor;
20         this.ram = ram;
21         this.storage = storage;
22         this.price = price;
23     }
24     @Override
25     public void printInvoice(int qty) {
26         // TODO Auto-generated method stub
27         super.printInvoice(qty);
28         System.out.print("Invoice for "+bra
29         System.out.println(" Total: "+pric
30     }
31     @Override
32     public String toString() {
33         return "Laptops [uId="+ uId + ", b
34             + ram + ", storage=" + stor
35             + ", lowLevelOrderQuantity=
36     }
37     @Override
38     public void generateRFM() {
39         // TODO Auto-generated method stub
40         super.generateRFM();
41     }
```

Accessories.java ×

```
1 package material;
2
3 import stock.Inventory;
4
5 public class Accessories extends Inventory{
6     @Override
7     public String toString() {
8         return "Accessories [uId=" + uId +
9             + price + ", quantity=" + g
10    }
11    int uId;
12    String type,brand,model;
13    double price;
14    public Accessories(int quantity, int uI
15        double price) {
16        super(quantity, 5);
17        this.uId = uId;
18        this.type = type;
19        this.brand = brand;
20        this.model = model;
21        this.price = price;
22    }
23    @Override
24    public void printInvoice(int qty) {
25        // TODO Auto-generated method stub
26        super.printInvoice(qty);
27        System.out.print("Invoice for Acces
28        System.out.println(" Total:"+price
29    }
30    @Override
```

Inventory.java ×

```
25 // TODO Auto-generated method stub
26
27 }
28 public void order(int qty) {
29     if(quantity>qty) {
30         quantity-=qty;
31         printInvoice(qty);
32     }
33     if(quantity<lowLevelOrderQuantity)
34         generateRFM();
35 }
36
37 }
38
39 public void setLowLevelOrderQuantity(in
40     this.lowLevelOrderQuantity = lowLev
41 }
42
43 public static void main(String[] args)
44     // TODO Auto-generated method stub
45 }
46
47 }
48 public void printInvoice(int qty) {
49     // TODO Auto-generated method stub
50 }
51 }
52 }
53 }
54 }
```

Console ×

<terminated> Order [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (28-Jan-2023, 1:40:03 am - 1:40:03 am) [pid: 11116]

Invoice for lenovo ideapad (ryzen5, 16GB/512GB) x5 Total: 300000.0

Invoice for lenovo ideapad (ryzen5, 16GB/512GB) x8 Total: 480000.0

GENERATING RFM

Laptops [uId=100, brand=lenovo, model=ideapad, processor=ryzen5, ram=16, storage=512, price=60000.0, quantity=2, lowLevelOrderQuantity=3]

Invoice for lenovo yoga (i7, 16GB/512GB) x2 Total: 130000.0

Writable

Smart Insert

13:26:612