To The Point (---RETIRED---)

Grade settings: Maximum grade: 100
Disable external file upload, paste and drop external content: Yes
Based on: To The Point (---RETIRED---)
Run: Yes **Evaluate**: Yes
Automatic grade: Yes

To The Point is one of the famous Courier services in the city. They wanted to calculate the amount to be paid by their customers based on the courier type. The Manager has approached you to create software that would calculate the amount to be paid by the customers based on the courier type.

Component Specification: Courier

Type (Class)	Attributes	Methods
Courier	String courierId String receiverName String receiverAddress String courierType int noOfPackages	Necessary getters, setters, and a five-argument constructor is provided as a part of the code skeleton.

Functional Requirement 1: Extract the details of the Courier and create an object for Courier class.

Type (Class)	Methods	Responsibilities
UserInterface	public static Courier **extractDetails**(String courierDetails)	This method accepts **courierDetails** separated by the colon as an argument and extracts the properties of the **Courier** from the argument. Set these values to the **Courier** object and return this object.

Functional Requirement 2: Calculate the amount to be paid by the customer for the Courier.

Type (Class)	Methods	Responsibilities
Courier	public double **calculateAmountToBePaid**()	This method is used to calculate the amount to be paid by the customer. If the courierType is **Standard**, the cost is **230**. If the courierType is **Express**, the cost is **250**. If the courierType is **OverNight** the cost is **500**. If the courierType is **SameDay**, the cost is **650**. If the courierType is **OnDemand**, the cost is **450**. ***Condition****:* • ***courierType*** *is case-insensitive.* • *If the* ***courierType*** *does not match any of the above-mentioned courierType, the method should return -1.* • *If the* ***noOfPackages*** *is less than or equal to zero, the method should return -1.*

Formula to calculate the amount to be paid:

Amount to be paid = noOfPackages * cost (based on the courierType)

For Example:

If courierType = Express, noOfPackages = 10,

Amount to be paid = 250 * 10 = 2500.0

The main method in the UserInterface class is excluded from the evaluation. You are free to write your own code in the main method to invoke the business methods to check its correctness.

Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question.
- Ensure to provide the names for classes, attributes, and methods as specified in the question.
- Adhere to the code template, if provided.

Sample Input / Output 1:

Enter Courier Details

COU273:Teena:Chicago:SameDay:5

Courier Id : COU273

Receiver Name : Teena

Receiver Address : Chicago

Courier Type : SameDay

No Of Packages : 5

Amount to be paid by the Customer : 3250.0

Sample Input / Output 2:

Enter Courier Details

COU263:Peter:Boston:Tonight:9

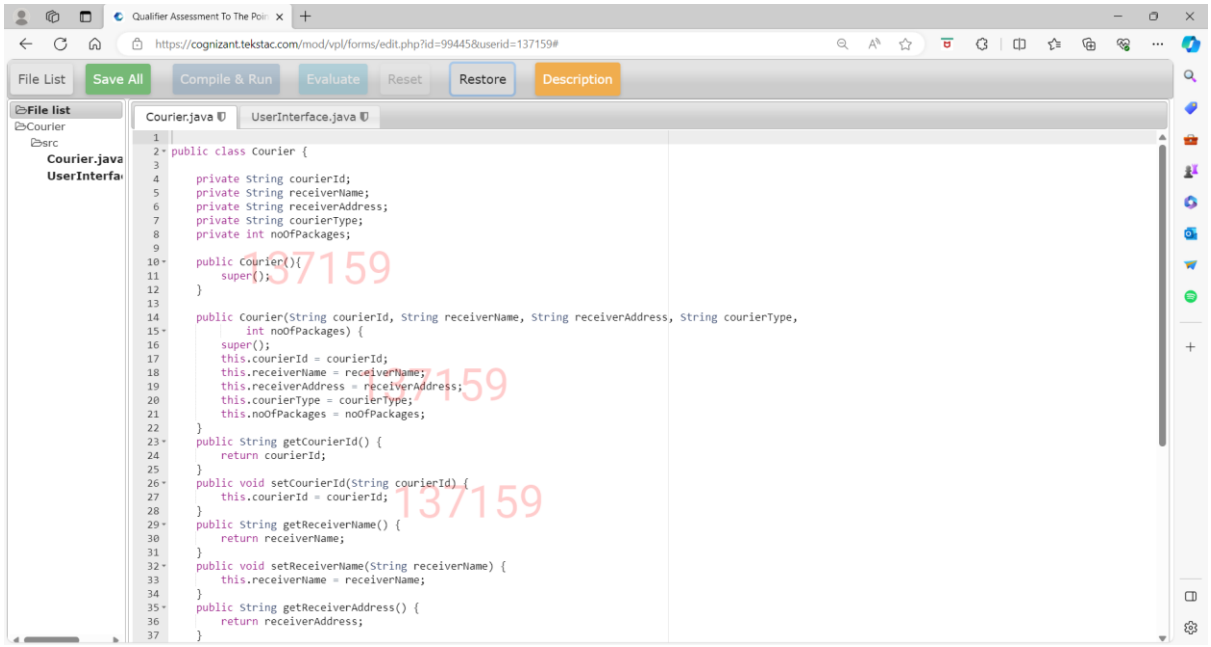
Invalid Courier Details

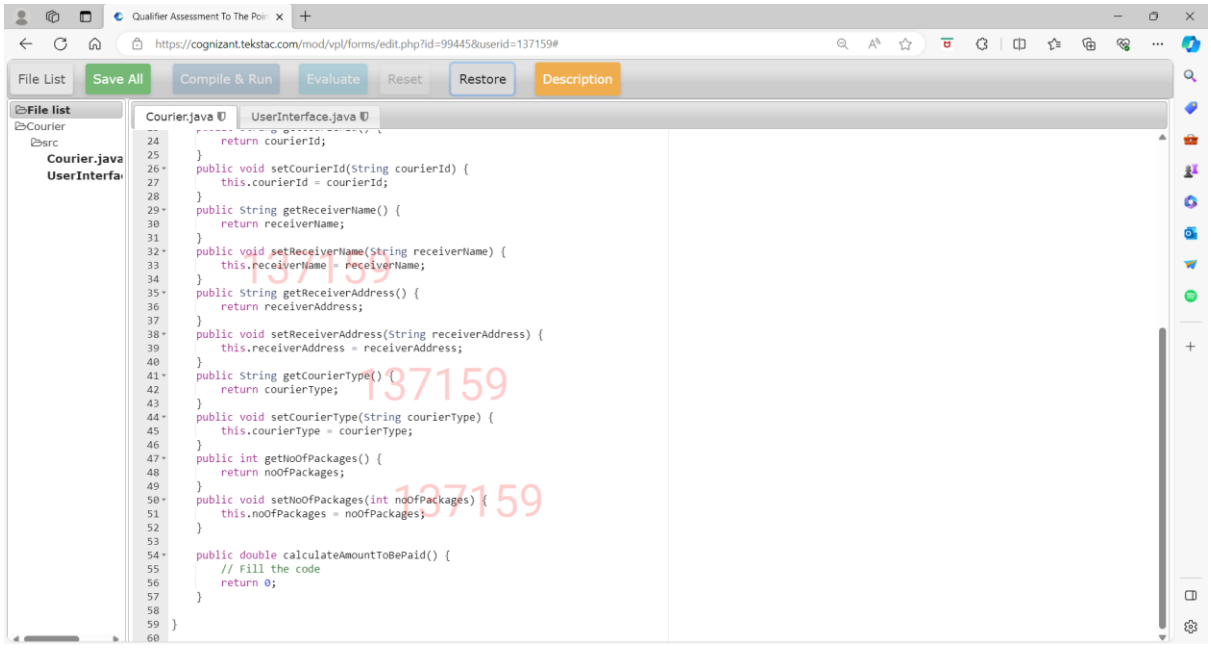
Sample Input / Output 3:

Enter Courier Details

COU263:Peter:Boston:OnDemand:-6

Invalid Courier Details




Qualifier Assessment To The Poi
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File List
Save All
Compile & Run
Evaluate
Reset
Restore
Description
File list
Courier
src
Courier.java
UserInterfa
Courier.java
UserInterface.java
return courierId;
}
public void setCourierId(String courierId) {
this.courierId = courierId;
}
public String getReceiverName() {
return receiverName;
}
public void setReceiverName(String receiverName) {
this.receiverName = receiverName;
}
public String getReceiverAddress() {
return receiverAddress;
}
public void setReceiverAddress(String receiverAddress) {
this.receiverAddress = receiverAddress;
}
public String getCourierType() {
return courierType;
}
public void setCourierType(String courierType) {
this.courierType = courierType;
}
public int getNoOfPackages() {
return noOfPackages;
}
public void setNoOfPackages(int noOfPackages) {
this.noOfPackages = noOfPackages;
}
public double calculateAmountToBePaid() {
// Fill the code
return 0;
}
}
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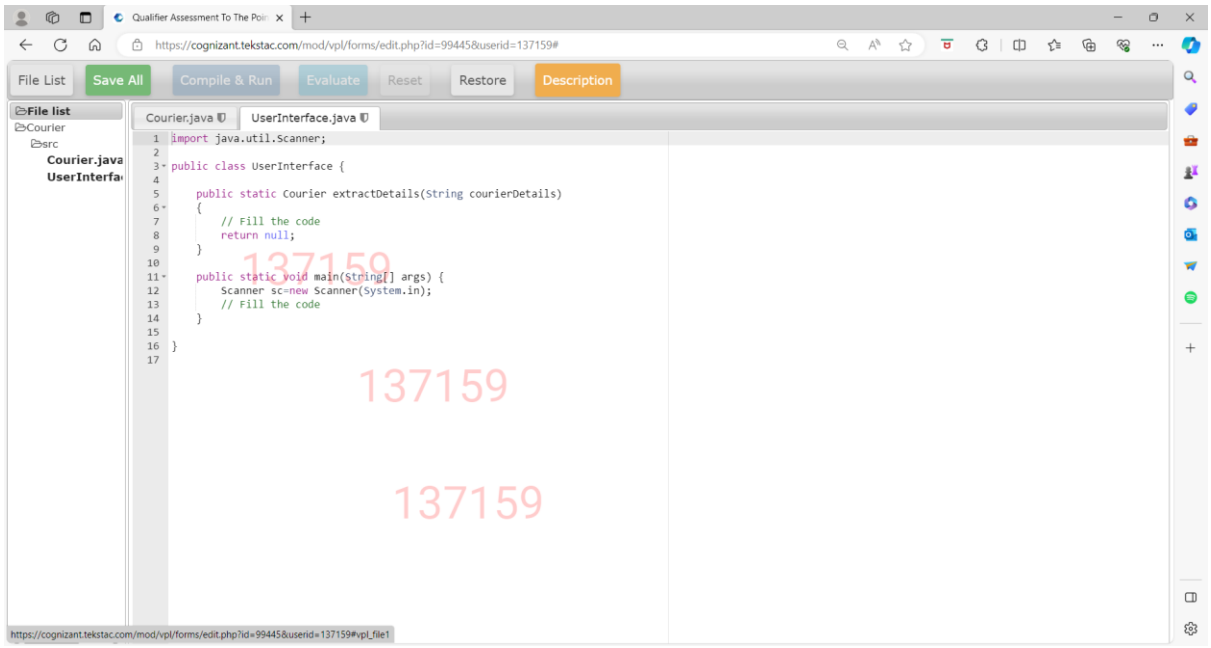
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File List
Save All
Compile & Run
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Description
File list
Courier
src
Courier.java
UserInterfa
Courier.java
UserInterface.java
import java.util.Scanner;
public class UserInterface {
public static Courier extractDetails(String courierDetails)
{
// Fill the code
return null;
}
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
// Fill the code
}
}
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