NCC Cadet Details(---RETIRED---)

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

The NCC organisation desired to calculate Cadet's fees based on Cadet's age. The NCC organization's manager contacts a software developer for assistance with their process. You are the software developer, and you are developing a Java program in accordance with the specifications

Component Specification: Cadet

Type (Class)	Attributes	Methods
Cadet	String cadetNumber String cadetName String groupName String gender int age	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 Cadet and create an object for Cadet class.

Type (Class)	Methods	Responsibilities
UserInterface	public static Cadet **extractDetails** (String cadetDetails)	This method accepts cadetDetails separated by the colon as an argument and should extract the properties of the Cadet from the argument by parsing the cadetDetails. Set

		these values to the Cadet object and return this object.

Functional Requirement 2: Calculate the Cadet's fees based on their age.

Type (Class)	Methods	Responsibilities
Cadet	public double **calculateFeesToBePaid**()	This method is used to calculate the Cadets' fees based on their age. If the age is between **11 and 15**, the fee amount is **2500**. If the age is between **16 and 20**, the fee amount is **3000**. If the age is between **21 and 25**, the fee amount is **3200**. If the age is between **26 and 30**, the fee amount is **3800**. If the age is between **31 and 35,** the fee amount is **4200**. ***Condition:*** • *If the **age** does not belong to any of the above-mentioned ranges, then return -1.* • *Both the **ages** mentioned in the range are inclusive.* • *The **groupName** should be "**Trollers**" else return -1.* • ***groupName** is case-insensitive.*

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 Cadet Details

CADET344:Danny:Trollers:Male:23

Cadet Number : CADET344

Cadet Name : Danny

Group Name : Trollers

Gender : Male

Age : 23

Fees to be paid by the Cadet : 3200.00

Explanation: Since the group name is Trollers and the age is between 21 and 25 fees to be paid is 3200.0

Sample Input / Output 2:

Enter Cadet Details

CADET287:Kenny:Trollers:Male:-9

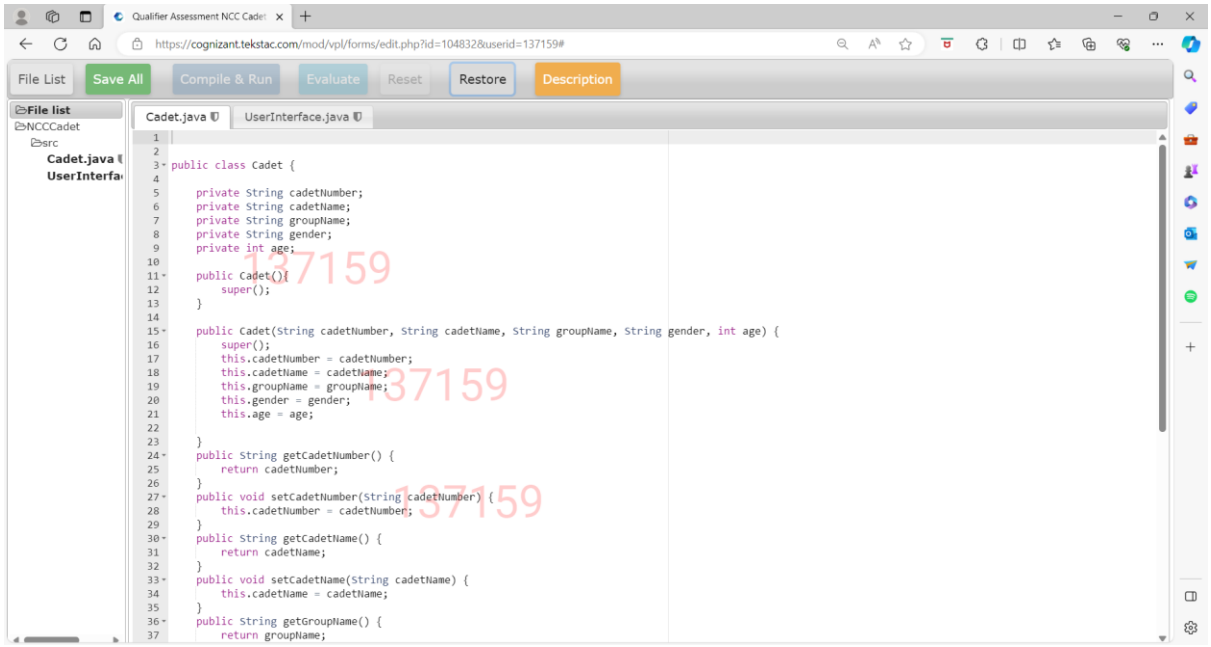
Invalid Cadet Details

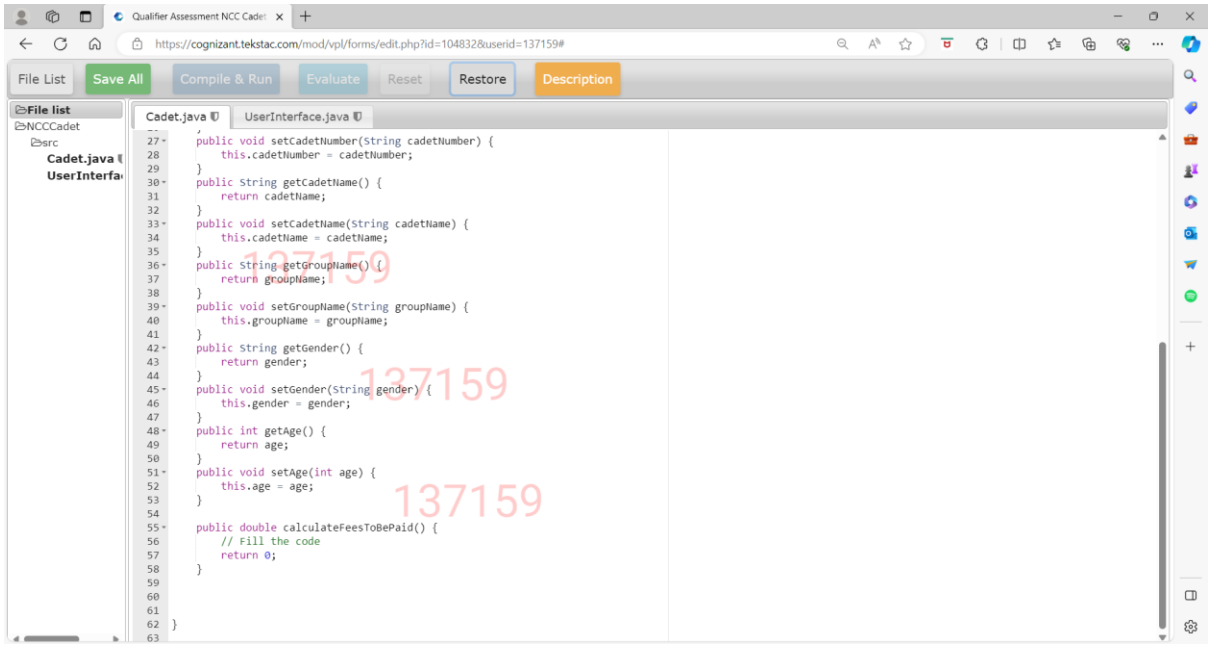
Sample Input / Output 3:

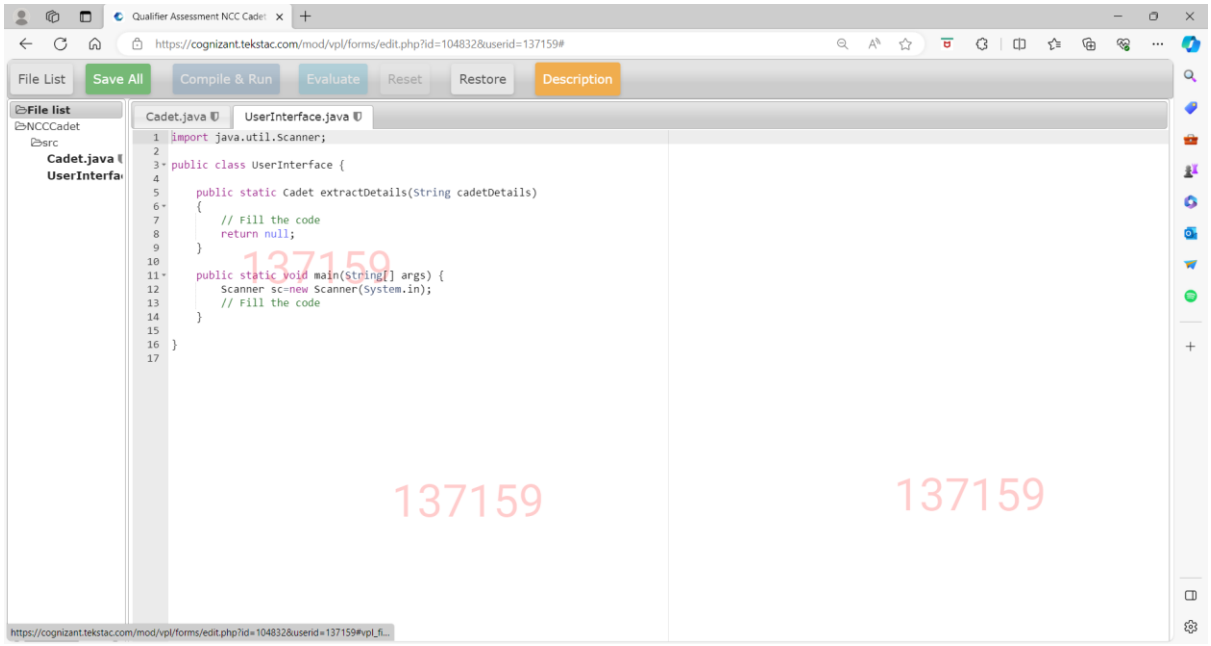
Enter Cadet Details

CADET287:Kenny:Rockers:Male:29

Invalid Cadet Details






Qualifier Assessment NCC Cadet
https://cognizant.tekstac.com/mod/vpl/forms/edit.php?id=104832&userid=137159#
File List
Save All
Compile & Run
Evaluate
Reset
Restore
Description
File list
NCCCadet
src
Cadet.java
UserInterfa
Cadet.java
UserInterface.java
import java.util.Scanner;
public class UserInterface {
public static Cadet extractDetails(String cadetDetails)
{
// Fill the code
return null;
}
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
// Fill the code
}
}
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137159
https://cognizant.tekstac.com/mod/vpl/forms/edit.php?id=104832&userid=137159#vpl_fi...