

Program ONE

Due

The written part is due at the beginning of class, the electronic part (if any) has to be sent to the instructor using Blackboard.

Objectives

1. To learn how to use Netbeans Java IDE (Integrated Development Environment).
2. To learn how to create a Java project, and classes in Netbeans that will read input, process it, and output it to the user.
3. To learn how to use Blackboard's digital drop box to send a jar file with both class files and source files to your instructor

References

1. Lecture Chapters,
2. Powerpoints
3. Netbeans Examples

Software Required

1. Netbeans
2. Blackboard

Assignment

1. You are to write a simple program that asks the user for input, processes the input, and then outputs a result back to the user.
2. Your project name should use the following standard xxxProjectName. xxx is your initials taken from the first three characters of your Cal Poly email
3. Read in the following
4. Name of customer
5. Car Type (Compact, Midsize, Sedan)
6. Number of week days
7. Number of weekend days (Weekends are Saturday, Sunday)
8. Amount customer paid for Rental
9. Use the standard national average for car rental to calculate the national cost of rental based on car selection and days used by customer

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10. Compare your result with what the customer paid and determine whether the rental was.
- Expensive** (the rental is expensive if it costs \$5 **more** than national average)
 - Bargain** (the rental is a bargain if it costs \$5 less **than** national average)
 - Average** (the rental is average if it is **at** the \$5 range plus or minus from the national average)

Your screens should look like this

INPUT SCREEN EXAMPLE

```
Welcome to the Car rental calculator
Enter First Name: <First name here>
Enter Last Name:<Last name here>
Enter Car Type: <Car type here>
Enter Week Days: <Week Days Here>
Enter Weekend Days: <Weekend Days Here>
Enter Rental Amount Paid: <Rental Amount>
```

OUTPUT SCREEN EXAMPLE

```
Car Rental Calculator Result
Customer: Customer Full Name Value
Car Type: Car Type Value
Days: XX [Week days] XX [Weekend]
Paid: XXXX
National Average: XXXX
Rental Comparison Result: (Expensive or Average or Bargain)

Do you want to enter another rental? (Yes, No): YES OR NO
```

Test Data

Use the data provided below to test the program.

National Rental Rates		
	<u>Week days</u>	<u>Weekends</u>
Compact	\$29.99	\$39.99
Midsize	\$39.99	\$49.99
Sedan	\$49.99	\$59.99

Test Customers			
Customer	Days	Car Type	Amount Paid
Homer Simpson	Tue, Wed, Thu	Compact	\$98.00
Bart Simpson	Mon, Tue, Wed, Thu	Midsize	\$152.96
Lisa Simpson	Wed, Thu, Fri, Sat, Sun	Sedan	\$262.95
Student Name	Thu, Fri, Sat	Sedan	\$161.00

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Deliverables

1. Electronic:

- Your .zip file from Netbeans must be upload to blackboard and it must be sent by the beginning of class. Upload your project by the time specified on blackboard otherwise the program is late and will not be accepted so make sure you turn-in whatever you have on time to get partial credit. (Do not wait until the last minute to test blackboard). The clock on blackboard site is the official clock.

2. Printed:

- Printout your source code
- Print out of the java output screens
- Place the cover page supplied at the end of this assignment in the front of your assignment.