ERRORS

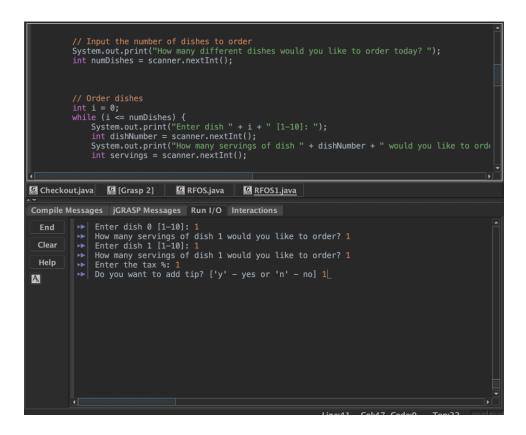
```
if (addTip == 'y') {
    System.out.print("Enter tip % [0-100]: ");
    double tipRate = scanner.nextDouble();
    tip = (totalAmount * tipRate) / 100;
}

// Calculate total amount
totalAmount += price[dishNumber - 1] * servings
// Display the receipt
System.out.printf("Price: $ %.2f \n", totalAmount);
System.out.printf("Tax (" + taxRate + "%): $%.2f \n", tax);
System.out.printf("Tax (" + taxRate + "%): $%.2f \n", total,
System.out.println("" - - - - - - - - ");
System.out.println("" - - - - - - - - ");
System.out.println("Total Amount: $ %.2f\n", total);
System.out.println("Your order has been placed and will be delivered soon!");

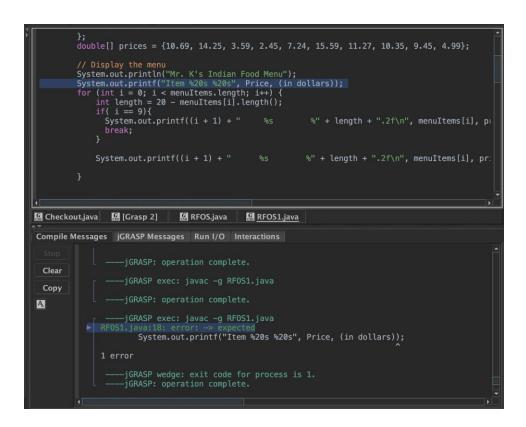
Accompile Messages | GRASP Messages | Run I/O | Interactions

Stop | RFOS1.java:59: error: ';' expected totalAmount += price[dishNumber - 1] * servings
Clear | Copy | ----jGRASP wedge: exit code for process is 1.
```

Forgot a semicolon.



Wrong variable value for 1. Printing 1 extra dish than needed.



Did not put the placeholder values nor did I include \n to make a new line.

```
----jGRASP exec: javac -g RFOS1.java

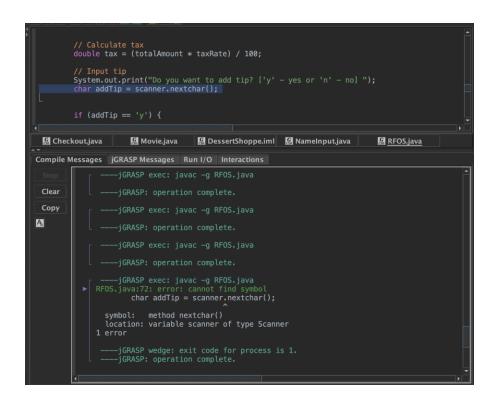
RFOS1.java:20: error: bad operand types for binary operator '-'
System.out.printf((i + 1) + " %s %" + 20-menuItems[i].lengt

first type: String
second type: int
1 error

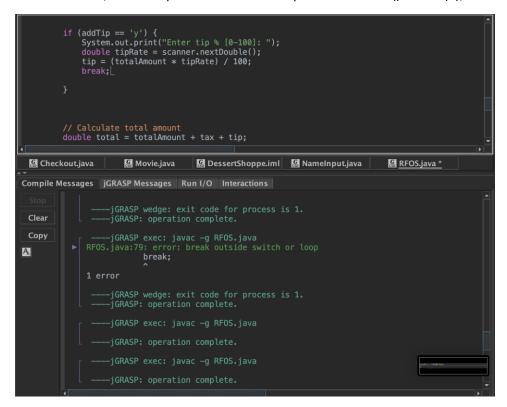
-----jGRASP wedge: exit code for process is 1.
-----jGRASP: operation complete.

----jGRASP exec: javac -g RFOS1.java
RFOS1.java:20: error: bad operand types for binary operator '-'
System.out.printf((i + 1) + " %s %" + 20 - menuItems[i].len
```

Can't subtract two strings. Had to make a separate variable outside of the System.out.println and then include it.



Not a valid line; Had to replace with char addTip = scanner.next().charAt(0);



Break command implemented in wrong area; removed and put in the while loop.

PSEUDOCODE

```
START
```

```
Define menultems, prices arrays
```

```
FOR i from 0 to Length(menuItems) - 1
```

END FOR

Initialize numDishes, totalAmount, taxRate, tax, addTip, tipRate, tip, grandTotal

Input "How many dishes?" -> numDishes

Validate numDishes is 1-10, else terminate

FOR i from 1 to numDishes

```
Input "Dish " + i + " [1-10]" -> dishNumber
```

Validate dishNumber is 1-10, else terminate

Input "Servings?" -> servings

Validate servings is positive, else terminate

totalAmount += prices[dishNumber - 1] * servings

END FOR

Validate taxRate is non-negative, else terminate

Calculate tax = (totalAmount * taxRate) / 100

IF addTip is 'y' OR addTip is 'Y'

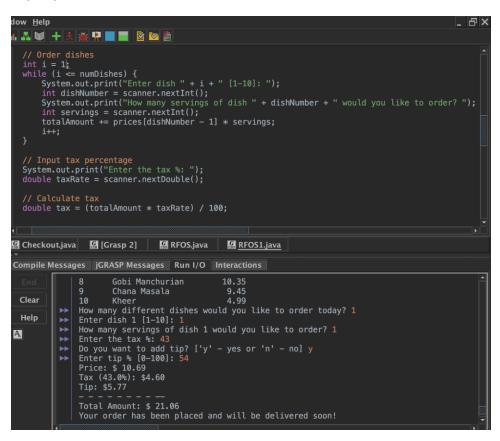
```
Validate tipRate is 0-100, else terminate
tip = (totalAmount * tipRate) / 100
END IF

Calculate grandTotal = totalAmount + tax + tip

Display Reciept
```

END

TEST RUN 1:



TEST RUN 2:

```
Lamb Biriyani
           Veg Biriyani
                                              11.27
           Gobi Manchurian
                                              10.35
           Chana Masala
                                              9.45
                                               4.99
How many different dishes would you like to order today? 5
Enter dish 1 [1-10]: 4
How many servings of dish 4 would you like to order? 3
Enter dish 2 [1-10]:
How many servings of dish 2 would you like to order? 8 Enter dish 3 [1-10]: 4
How many servings of dish 4 would you like to order? 6 Enter dish 4 [1-10]: 4
How many servings of dish 4 would you like to order? 2 Enter dish 5 [1-10]: 1
How many servings of dish 1 would you like to order? 9
Enter the tax %: 4.35

Do you want to add tip? ['y' - yes or 'n' - no] y

Enter tip % [0-100]: 15

Price: $ 237.16

Tax (4.35%): $10.32
Tip: $35.57
Total Amount: $ 283.05
```

TEST RUN 3:

```
Compile Messages | jGRASP Messages | Run I/O | Interactions |

| A Chai | 2.45 |
| 5 Gulab Jamun | 7.24 |
| 6 Lamb Biriyani | 15.59 |
| 7 Veg Biriyani | 11.27 |
| 8 Gobi Manchurian | 10.35 |
| 9 Chana Masala | 9.45 |
| 10 Kheer | 4.99 |
| How many different dishes would you like to order today? 3 |
| Enter dish 1 [1-10]: 3 |
| How many servings of dish 3 would you like to order? 3 |
| Enter dish 2 [1-10]: 3 |
| How many servings of dish 3 would you like to order? 3 |
| Enter dish 3 [1-10]: 3 |
| How many servings of dish 3 would you like to order? 3 |
| Enter the tax %: 3 |
| Do you want to add tip? ['y' - yes or 'n' - no] n |
| Price: $ 32.31 |
| Tax (3.0%): $0.97 |
| Tip: $0.00 |
| - - - - - - - - |
| Total Amount: $ 33.28 |
| Your order has been placed and will be delivered soon!
```

TEST RUN 4:

```
Lamb Biriyani
                                   15.59
        Veg Biriyani
                                   11.27
        Gobi Manchurian
                                   10.35
        Chana Masala
                                    9.45
        Kheer
                                    4.99
How many different dishes would you like to order today? 1
Enter dish 1 [1-10]: 1
How many servings of dish 1 would you like to order? {\bf 1}
Enter the tax %: 1
Do you want to add tip? ['y' - yes or 'n' - no] 1
Price: $ 10.69
Tax (1.0%): $0.11
Tip: $0.00
Total Amount: $ 10.80
Your order has been placed and will be delivered soon! Thank You for Ordering from Mr. Sharma's Kitchen!
       Come Again!
```

TEST RUN 5:

