```
// Michael Cohen
 // Chapter 3: Programming Challenge 12
 public class SpeedOfSound
    public static void main(String[] args)
        String medium;
        double time;
        if (medium.equals("air"))
            System.out.printf("It will take %f seconds to travel through the medium.\n", time);
& AnnualIncome.java
                                                                           SalesPrediction.java
                                                                                                  PlantingGrapevines.java
                                                                                                                          WiFiDiagnosticTree.java
                                                                                                                                                    SpeedOfSound.java
Compile Messages | jGRASP Messages | Run I/O | Interactions
              Enter one of the following mediums (air, water, or steel):
  Clear
              Enter the distance of the medium (in feet):
  Help
              It will take 0.250000 seconds to travel through the medium.
```

```
// Chapter 3: Programming Challenge 13
                                                                                                                                       total = b + (0.40*(minutes - 900));
    public static void main(String[] args)
                                                                                                                                      total = b;
         int minutes;
         double total;
         Scanner keyboard = new Scanner(System.in);
Mobile Service Provider. java 🖁 Cookie Calorie Counter. java
                                                                                                                                        WiFiDiagnosticTree.java
                                                         G AnnualIncome.java
                                                                                   SalesPrediction.java
                                                                                                            @ PlantingGrapevines.java
                                                                                                                                                                     SpeedOfSound.java
Compile Messages | jGRASP Messages | Run I/O | Interactions
               Which package do you have (A, B, or C):
  Clear
               How many minutes were used this month:
  Help
                Your total is: $40.44
```

```
import java.util.Scanner;
                                                                                                                      System.out.print("Reboot the computer and try to connect. \nDid that fix the problem? ");
 // Michael Cohen
 // Chapter 3: Programming Challenge 17
                                                                                                                      if (response1.equalsIgnoreCase("yes"))
                                                                                                                            System.out.print("Good!");
 public class WiFiDiagnosticTree
                                                                                                                     else if (response1.equalsIgnoreCase("no"))
     public static void main(String[] args)
                                                                                                                            System.out.print("Reboot the router and try to connect. \nDid that fix the problem? ");
        String response1;
        String response2;
        String response3;
        String response4 = " "; //Weird error if I didnt add " = ' ' "
                                                                                                                               System.out.print("Make sure the cables between the router & modem are plugged in firmly. \nDid that
                                                                                                                               response3 = keyboard.nextLine();
                                                                                                                               if (response3.equalsIgnoreCase("no"))
        System.out.print("Reboot the computer and try to connect. \nDid that fix the problem? ");
                                                                                                                                   System.out.print("Move the router to a new location and try to connect. \nDid that fix the probl
                System.out.print("Good!");
        else if (response1.equalsIgnoreCase("no"))
                                                                                                                                      System.out.print("Get a new router.");
                response2 = keyboard.nextLine();
                      if (response4.equalsIgnoreCase("no"))
Mobile Service Provider. java Cookie Calorie Counter. java
                                                                                                           PlantingGrapevines.java

☑ WiFiDiagnosticTree.java

                                                                                                                                                                 SpeedOfSound.java
                                                        Annuallncome.java
                                                                                  SalesPrediction.java
Compile Messages | jGRASP Messages | Run I/O | Interactions
                Reboot the computer and try to connect.
  Clear
  Help
                Reboot the router and try to connect.
               Did that fix the problem? no
                Make sure the cables between the router & modem are plugged in firmly.
               Did that fix the problem? no
               Did that fix the problem? no
               Get a new router.
```