```
                    //char from the given starting point. Returns -1 if the character
is not found.
                    blankPosition = sentence.indexOf(" ", current);

                    //if at end of sentence, extract the current word and set counter
variable i to
                    //sentence length to stop looping
                    if (blankPosition == -1)
                    {
                       //extract the word
                        word = sentence.substring(current);
                        i = sentence.length();
                    }
                    else
                    {
                      //Substring in Java grabs the characters from the given string,
starting at the
                      //current position and collecting characters to the specified end
position.

                       word = sentence.substring(current, blankPosition);
                        i = blankPosition;
                    }
                    //increment the word count
                    wordcount++;
                    //print the word
                    System.out.println(wordcount + "    " + word);
                }
               //Print the total word count
                System.out.println("Total word count " + wordcount);

               // end of program for unit 5 assignment
        }
}
```

## Unit 7

```
//IT213 Unit 7 Assignment
public class IT213_YourLastName_Unit7 {
        //Main is the entry point for your code
       public static void main(String[] args)
        {
            //define six variables and assign them Celsius temperature values
            //call two functions to display converted temps and weather statement for
each temp

            double temp1 = 35.5;
            double temp2 = 30.5;
            double temp3 = 22.2;
            double temp4 = 16.1;
            double temp5 = 7.3;
            double temp6 = -1;
```

```
            int tempF = 0;  //working variable to capture the return value from
fahrenheit()
            String advisory=" "; //string var to capture the return value of
weatherStatement()

            System.out.print("Assignment 7 - Functions and Type Conversion\n\n");

            //call to fahrenheit function to determine Fahrenheit equivalent of
Celsius
            //temperature value
            tempF = fahrenheit(temp1);
            //call to weatherStatement function to display appropriate weather
statement given
            //temperature value
            advisory = weatherStatement(tempF);
            // Print the temp and weather statement
            System.out.print("The temperature is " + temp1 + "C or " + tempF + "F. "+
advisory + "\n");

            //repeat temp conversion and weather statements for remaining C values
            tempF = fahrenheit(temp2);
            advisory = weatherStatement(tempF);
            System.out.print("The temperature is " + temp2 + "C or " + tempF + "F. "
+ advisory + "\n");

            tempF = fahrenheit(temp3);
            advisory = weatherStatement(tempF);
            System.out.print("The temperature is " + temp3 + "C or " + tempF + "F. "
+ advisory + "\n");

            tempF = fahrenheit(temp4);
            advisory = weatherStatement(tempF);
            System.out.print("The temperature is " + temp4 + "C or " + tempF + "F. "
+ advisory + "\n");

            tempF = fahrenheit(temp5);
            advisory = weatherStatement(tempF);
            System.out.print("The temperature is " + temp5 + "C or " + tempF + "F. "
+ advisory + "\n");

            tempF = fahrenheit(temp6);
            advisory = weatherStatement(tempF);
            System.out.print("The temperature is " + temp6 + "C or " + tempF + "F. "
+ advisory + "\n");

        } //end main

        // function to return Fahrenheit equivalent of Celsius temperature
        public static int fahrenheit(double myTemp)
             {
            //Type cast to (int) truncates decimal In Java, Math.round() is good
means of
            //rounding
            int intTemp = (int)Math.round(myTemp * 9.0 / 5.0 + 32);
            return intTemp;
```

```
        } // end method Fahrenheit

        //function that accepts temperature in Fahrenheit and displays correct
weather statement
        //for that temp
        public static String weatherStatement(int tempF)
        {
            if (tempF >= 95)
            {
                return "A heat advisory has been issued.";
            }

            else if (tempF >= 85)
            {
                return "Pleasant but warm.";
            }

            else if (tempF >= 70)
            {
                return "Very pleasant weather today.";
            }
            else if (tempF >= 50)
            {
                return "Pleasant but cool.";
            }
            else if (tempF >= 33)
            {
                 return "Cold weather.";
            }
            else
            {
                return "A freeze warning has been issued.";
            }

        }// end method weatherStatement
    }// end of program for unit 7 assignment
```

## Unit 8

```
//IT213 Unit 8 Assignment
public class IT213_YourLastName_Unit8 {

              //Main is the entry point for your code
              public static void main(String[] args)
              {
                  //Define an integer array that will hold 10 integers. Initialize
it with the ten values
                  //given.
                  int[] numberArray = { 56, 77, 23, 12, 88, 59, 97, 33, 38, 64 };

                  //Define a string array that will hold 10 strings.
```