**Terms to review:**

literal string

literal constant

identifier

variable

constant

declaration

initialization

assignment

argument

data type

intrinsic type

arithmetic operator

comparison operator

binary operator

unary operator

implicit cast

explicit cast

format string

\* place holder

\* format specifier

\* precision specifier

**Homework & Labs**

*// Please name your projects LB1, LB2, LB3, etc*

1. Complete Naming Conventions 2 on InsideRanken

2. Complete Data Types 2 on InsideRanken

3. Complete Prefix/Postfix 2 on InsideRanken

4. Write a console program that converts distances from miles to kilometers:

* Declares a named constant named **KM\_PER\_MILE** which holds the number of kilometers in a mile (1.6 km per mile).
* Prompts the user for a distance in miles.
* Displays the distance in both kilometers and miles. For example: **“3.0 miles is 4.8 kilometers”**

5. Write a console program that calculates projected raises:

* Declares a named constant **PERCENT\_RAISE** and assign it a value of 4% (or 0.04)
* Prompts the user for the names and salaries of three employees.
* Displays the projected salaries for these three employees over the next 2 years in a table, assuming that they get a 4% raise every year.

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| Year | Bob | Fred | Will |

+------------+------------+------------+------------+

| 2018 | $10,000.00 | $20,000.00 | $30,000.00 |

| 2019 | $10,400.00 | $20,800.00 | $31,200.00 |

| 2020 | $10,816.00 | $21,632.00 | $32,448.00 |

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6. Write a console program that calculates the average grade for a student:

* Prompts the user for four test scores
* Displays the average of the entered test scores

7. Pig Latin is a nonsense language. To create a work in Pig Latin, you remove the first letter and then add the first letter and “ay” at the end of the word. For example, “dog” becomes “ogday” and “cat” becomes “atcay.” Write a console program that allows the user to enter a word and displays the Pig Latin version.

Hint: Research and use String.Substring()