# Assignment #1

Chapter 1: An Introduction to Programming

In this assignment you will use **pseudo code** to solve the given problem. Include appropriate input prompts and annotate output*.*

1. Write a program that converts a temperature input in degrees Celsius into degrees Fahrenheit and displays both temperatures. You will need the following variables:

Celsius (a Float) Fahrenheit (a Float)

You will need the following formula: Fahrenheit = (9/5) \* Celsius + 32

1. Write a program that computes and displays the batting average for a baseball player when the user inputs the number of hits and at-bats for that player. Batting average is computed by dividing the number of hits by the number of at-bats. You will need the following variables:

Hits (an Integer) AtBats (an Integer) BatAvg (a Float)

1. Write a program to compute and display an investment’s total interest and final value when the user inputs the original amount invested, rate of interest (as a decimal), and number of years invested. You will need the following variables:

Interest (a Float) Principal (a Float) Rate (a Float)

FinalValue (a Float) Time (an Integer)

You will need the following formulas:

Interest = Principal \* Rate \* Time

FinalValue = Principal + Interest

**Rubrics**

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| --- | --- | --- | --- |
|  | **Excellent (70%-100%)** | **Good (50%-70%)** | **Poor (0%-50%)** |
| Algorithm | Learned Materials Applied Professionally | Learned Materials Applied Professionally | Learned Materials Applied Professionally |
| Development | Codes have been developed correctly and implementing the algorithm proposed | Codes have been developed correctly and implementing the algorithm proposed | Codes have been developed correctly and implementing the algorithm proposed |
| Coding Style | Correct use of coding style, comments, indentation, loops, etc. | Correct use of coding style, comments, indentation, loops, etc. | Correct use of coding style, comments, indentation, loops, etc. |