**CIS261**

**Assignment 1**

Skills Being Assessed

* Basic Python coding
* Create initial functions to code logic for preliminary specifications

Overview

* The purpose of this assignment is to demonstrate knowledge of basic Python programming, including proper naming conventions for variables and functions, and the use of loops to call functions to input and display data and functions to calculate and display totals.

Scenario

* A local business has been doing payroll manually and wants to automate the process. You are going to provide a proof of concept to demonstrate how data will be entered and payroll calculated. The user will enter an employee name, hours worked, hourly rate, income tax rate and the program will calculate the income taxes and net pay. After all data is entered, employee name, hours worked, hourly rate, gross pay, income tax rate, income taxes and net pay will be displayed. When the user enters “End” for the employee name the loop will terminate and the program will display the total number of employees, total hours worked, total gross pay, total income taxes and total net pay for all employees.

Instructions

1. Create a loop that will get allow user input by calling various functions until terminated by the user typing “End”
2. Create a function that will input and return the employee name and is called inside the loop
3. Create a function that will input and return total hours and is called inside the loop
4. Create a function that will input and return the hourly rate and is called inside the loop
5. Create a function that will input and return the income tax rate and is called inside the loop
6. Create a function that will take total hours, hourly rate, and tax rate as parameters and calculate and return the gross pay, income tax and net pay and is called inside the loop
7. Create a function that will display employee name, total hours, hourly rate, gross pay, income tax rate, income tax, and net pay and is called inside the loop
8. Create a function that will display total number of employees, total hours, total gross pay, total tax, and total net pay
9. Submit the Python source code file and a Word document that contains a screen shot of input and display for one employee and a screen shot of the display of totals. A minimum of five employees must be entered to receive full credit

Resources

Course Outcome:

* Create and call functions that pass in parameters and return values