**Problem Description**

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Write a program that reads the following information and prints a payroll statement:

Employee’s ID (e.g., 123)

Number of hours worked in a week (e.g., 30)

Hourly pay rate (e.g., 7.25)

Federal tax withholding rate (e.g., 20%)

State tax withholding rate (e.g., 4%)

Here is a sample run:

Enter the employee’s ID: 123

Enter the number of hours worked in a week: 30

Enter the hourly pay rate: 7.25

Enter the federal tax withholding rate (as a percentage): 20

Enter the state tax withholding rate (as a percentage): 4

SUMMARY

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Employee ID: 123

Hours Worked: 30.0

Pay Rate: $7.25

Gross Pay: $217.5

Deductions:

Federal Withholding (20.0%): $43.5

State Withholding (4.0%): $8.7

Total Deductions: $52.2

Net Pay: $165.3

IPO (Input/Processing/Output) - Describe in detail the exact input(s), the processing that will take place, and the exact output(s). Put these three steps in a numbered list below.

1. The exact inputs would be first we would have to use the input function to input a prompt to allow the user to input the Employee’s ID. After that you need to enter in the hours worked and the pay rate as a float number with an input to enter in the amount worked for the week. The third thing you would need to input is the tax withholding information as floating point numbers with an input prompt so the user can enter the tax information to calculate the state and federal tax withholding as a decimal integer in the processing part.
2. For processing we would need to calculate the gross pay which equals the hours worked \* the pay rate. We also would need to calculate/find the tax deductions for both the federal withholding tax deductions and state tax deductions by having the federal withholding tax rate divided by 100 and multiplied by the gross pay to find the amount for the tax deduction. The same thing would happen for the state deductions with dividing the state withholding rate by 100 to get it in decimal form and multiply it by the gross pay to get the dollar amount to deduct form the gross pay. Then we would find the total deductions by adding the results from the state and federal tax deductions. Later on we need to find the net pay which Is the gross pay subtracted by the total tax deductions.
3. The outputs would be a collection of print statements using the print function with the terms and functions outside the double quotes but inside the print function parentheses. We would need to print a summary in all caps in double quotes and inside parentheses. Before the summary use the \n to create a line ahead to separate the inputs and the outputs. The step after would involve printing all the payroll statements like the Employee ID, Hours Worked, Pay Rate, and Gross Pay with the statements in double quotes and the defined terms outside the double quotes but inside the print function. Next, we would need to print the statements for the federal withholding (20%) in double quotes and the state withholding (4.0%) in double quotes with the total tax deductions printed in double quotes below both statements. The tax deductions would have the functions next to those statement withholdings outside the quotes and in the function. The Net pay would be printed last as a statement with the function defined outside the double quote string but the defined term/function inside the parentheses.

Coding - Write your program in Python. (Note: This will be in your .PY file.)

Testing – Run your program with least three test cases that show that your program is correct. Include screenshots of these test cases below.

Graphical user interface, text, application, email

Description automatically generated

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Submit the following items to the appropriate Drop Box on Moodle

1. This worksheet after you have answered all the items above (put your answers in bold and red font).
2. Your Python program saved as Program01.py.