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‘ Name: Habsatou War

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‘Assignment: Assignment1

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Using Pseudo Code, write the algorithm to calculate gross and net pay and develop the test cases

* Gross pay :

Input :

hoursWorked

rate

Output :

grossPay

Overtime = hoursWorked – 40

**IF** hoursworked > 40 **THEN**

grossPay = hoursWorked \* rate + overtime \* rate \* 3/2

**ELSE**

grossPay = hoursWorked \* rate

**END IF**

DisplaygrossPay

* Net Pay :

Input :

grossPay

Output:

netPay

**IF** grossPay < 400 **THEN**

Taxes = 0 ‘ A

**ELSE IF** grossPay < 1000 and grossPay > 400 **THEN**

Taxes = (grossPay - 400) \* 0.05 ‘B

**ELSE**

Taxes1 = (grossPay - 1000) \* 0.1

Taxes2 = (grossPay – (grossPay - 1000) - 400)\* 0.05 ‘C

Taxes = Taxes1 + Taxes2

**END IF**

netPay = grossPay – Taxes

Display netPay

* Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| Input data | Path | Expected results | Actual results |
| GrossPay = $400 | A | Taxes = 0  NetPay = $400 | Taxes = 0  NetPay =$400 |
| GrossPay = $600 | B | Taxes = $10  NetPay = $590 | Taxes = $10  NetPay = $590 |
| GrossPay = $1200 | C | Taxes = $50  NetPay = $1150 | Taxes = $50  NetPay = $1150 |