

Pseudocode

1. Teacher.java

ComputePayRoll()

- Check if the teacher is full-time or not.
- If the teacher is not full-time, calculate the payroll amount as 32 times the degree rate times 2 and times 0.85.
- If the teacher is full-time, calculate the payroll amount as hours worked times degree rate times 2 times 0.76.
- Return the payroll amount as the output of the method.

getDegreeRate(String degree)

- Convert the input degree to uppercase using toUpperCase() method and assign it to a variable called deg.
- Use a switch statement to check the value of deg.
- If deg is "PHD", return 112.
- If deg is "MASTER", return 82,
- If deg is "BACHELOR", return 42.
- If deg does not match any of the above cases, return 0.
- End switch statement.
- Return the corresponding rate of pay based on the input degree as the output of the method.

2. Staff.java

ComputePayRoll()

- Set the result variable to 0.
- Check if the workload (number of weekly hours worked) is greater than 40.
- If the workload is greater than 40, print an error message stating that the workload cannot exceed 40 hours.
- If the workload is not greater than 40, calculate the payroll amount as workload times 32 times 2 times 0.75.
- Assign the result of the calculation to the result variable.
- Return the result variable as the output of the function.