

Exercise 2.1

An employee has **his name** and the **number of hours** of work.

- Determines the wage of an employee from the number of hours of work. Suppose 12 dollars per hour.
- Utopia's tax accountants always use programs that compute income taxes even though the tax rate is a solid, never-changing 15%. Determine the tax on the gross pay.
- Also determine netpay of an employee from the number of hours worked base on gross pay and tax .
- Determine the raised wage to \$14 for everyone
- No employee could possibly work more than 100 hours per week. To protect the company against fraud, the method should check that the hours doesn't exceed 100. If it does, the method returns false. Otherwise, it returns true

Exercise 2.2

- An old-style movie theater has a simple profit method. Each customer pays for ticket, for example \$5. Every performance costs the theater some money, for example \$20 and plus service charge per attendee, for example \$.50.
- Develop the **totalProfit** method. It consumes the number of attendees (of a show) and produces how much income the attendees profit
- Example:
 - **totalProfit(40)** return **\$160**

[Solution](#)