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| IPO and Data Dictionary | | | | |
| Variable/Constant name | **Description** | **Input or code** | **Processing** | **Output** |
| BR | HTML line break | "<br />" |  |  |
| ES | extra space | " " |  |  |
| LE | line end | "." |  |  |
| FED\_RATE | federal income tax rate | 0.15 (15%) |  |  |
| STATE\_RATE | state income tax rate | 0.034(3.4%) |  |  |
| COUNTY\_RATE | county income tax rate | 0.011(1.1%) |  |  |
| first\_name | first name | first\_name |  |  |
| last\_name | last name | last\_name |  |  |
| hours | hours worked | hours |  |  |
| wage | wage | wage |  |  |
| medical | medical insurance witholding | medical |  |  |
| gross\_pay | gross pay |  | hours \* wage | gross\_pay |
| federal | federal income tax withholding |  | gross pay \* FED\_RATE | federal |
| state | state income tax withholding |  | gross pay \* STATE\_RATE | state |
| county | county income tax withholding |  | gross pay \* COUNTY\_RATE | county |
| total\_withholding | total withholding |  | federal+state+county+medical | total\_withholding |
| net\_pay | net pay |  | gross\_pay – total\_withholding | net\_pay |

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| Date: |
| Description: |

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| Coding | |
| //Programmer: | Nanette K. Hartley, Ph. D. |
| //Language: | JavaScript |
| //Program Name: | payrollCal |
| //Date: | 9/28/2013 |
| //Description: | Calculates payroll for an employee based on wage, hours worked, medical and tax deductions. Prints a summary of wage and employee information to the screen. |
| //Declaration of variables and constants | |
| var name = 0 or ES; | |
| //Program Heading | |
| document.write("Hello! Welcome to the Payroll Calculator!" + BR + BR"); | |
| //Requesting Input | |
| first\_name = prompt("Please enter the employee's first name:", ES);  last\_name = prompt("Please enter the employee's last name:", ES);  hours = prompt("Number of hours worked:", ES);  wage = prompt("Employee's hourly wage:", ES);  medical = prompt("Employee's medical deduction:", ES); | |
| //Processing | |
| gross\_pay = hours \* wage;  federal = gross pay \* FED\_RATE;  state = gross pay \* STATE\_RATE;  county = gross pay \* COUNTY\_RATE;  total\_withholding = federal + state + county + medical  net\_pay = gross\_pay – total\_withholding | |
| //Required Output | |
| document.write("Employee Name:" + ES + first\_name + ES + last\_name + LE + BR);  document.write("Employee Wage:" + ES + wage + LE + BR);  document.write("Hours worked:" + ES + hours + LE + BR);  document.write("Gross Pay:" + ES + gross\_pay + LE + BR);  document.write("Federal Tax:" + ES + federal + LE + BR);  document.write("State Tax:" + ES + state + LE + BR);  document.write("County Tax:" + ES + county + LE + BR);  document.write("Medical Withholding:" + ES + medical + LE + BR);  document.write("Total Withholding:" + ES + total\_withholding + LE + BR);  document.write("Net Pay:" + ES + net\_pay + LE + BR); | |
| //Thank the user and end program | |
| document.write("Thanks for using the salary calculator!"); | |