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#CTI-110
#P4HW2 - Salary Calculator
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print("This program calculate gross pay for multiple employees, determined by user, and also calculates total amount paid for overtime, total
amount paid for regular pay and total amount paid for all employees ")
print()

numOfEmp = 0
totalOverTimePay = 0
totalRegPay = 0
totalGrossPay = 0

#Looping until user wishes to done
while(True):

    #Ask user to enter for employee's name or Done for termination
    empName = input("Enter employee's name or \"Done\" to terminate: ")

    if empName == "Done":
        break

    else:
        #Increment the total numOfEmp by 1
        numOfEmp = numOfEmp + 1
        hour = float(input("How many hours did " + empName + " work? "))
        rate = float(input("What is " + empName + "' pay rate? "))

    #Set variables
    overTimePay = 0
    regularPay = 0
    grossPay = 0
    overTime = 0

    #Calculate overTime, overTimePay, regularPay and grossPay for employee work more than 40 hours
    if hour > 40:
        overTime = hour - 40
        overTimePay =(1.5 * rate * overTime)
        regularPay = rate * 40
        grossPay = regularPay + overTimePay

    #Calculate regularPay and grossPay for employee work less than 40 hours
    else:
        regularPay = hour * rate
        grossPay = regularPay

    #Calculate overTime total, regular pay total and gross pay total
    totalOverTimePay += overTimePay
    totalRegPay += regularPay
    totalGrossPay += grossPay

    #Display results
    print("\nEmployee name: " + empName + "\n")
    print("{:<20}{:<20}{:<20}{:<20}{:<20}{:<20}".format("Hours Worked", "Pay Rate", "OverTime", "OverTime Pay", "RegHour Pay", "Gross Pay"))
    print("-----")
    print("{:<20.1f}{:<20.1f}{:<20.1f}{:<20.2f}${:<19.2f}${:<20.2f}".format(hour, rate, overTime, overTimePay, regularPay, grossPay))
    print()

#Display the number of employees, overTime total, regular pay total, and gross pay total
print()
print("Total number of employees entered:", numOfEmp)
print("Total amount paid for overTime: $" + '{:.2f}'.format(totalOverTimePay))
print("Total amount paid for regular hours: $" + '{:.2f}'.format(totalRegPay))
print("Total amount paid in gross: $" + '{:.2f}'.format(totalGrossPay))

```