import datetime

def get\_from\_date():

from\_date\_str = input("Enter from date (mm/dd/yyyy): ")

from\_date = datetime.datetime.strptime(from\_date\_str, '%m/%d/%Y')

return from\_date

def get\_to\_date():

to\_date\_str = input("Enter to date (mm/dd/yyyy): ")

to\_date = datetime.datetime.strptime(to\_date\_str, '%m/%d/%Y')

return to\_date

def calculate\_tax\_and\_netpay(total\_hours, hourly\_rate, tax\_rate):

tax = float(total\_hours) \* float(hourly\_rate) \* (float(tax\_rate) / 100)

net\_pay = float(total\_hours) \* float(hourly\_rate) - tax

return tax, net\_pay

def display\_employee\_info(employee\_data):

print("----------------------------------------------------")

print("Employee name:", employee\_data['name'])

print("From date:", employee\_data['from\_date'].strftime('%m/%d/%Y'))

print("To date:", employee\_data['to\_date'].strftime('%m/%d/%Y'))

print("Total hours:", employee\_data['hours'])

print("Hourly rate:", employee\_data['hourly\_rate'])

print("Tax rate:", employee\_data['tax\_rate'])

print("Gross pay:", employee\_data['gross\_pay'])

print("Income tax:", employee\_data['tax'])

print("Net pay:", employee\_data['net\_pay'])

print("----------------------------------------------------")

def display\_total\_info(total\_data):

print("----------------------------------------------------")

print("Total number of employees:", total\_data['employees'])

print("Total hours:", total\_data['hours'])

print("Total tax:", total\_data['tax'])

print("Total gross pay:", total\_data['gross\_pay'])

print("Total net pay:", total\_data['net\_pay'])

print("----------------------------------------------------")

def main():

employee\_data = []

total\_data = {

'employees': 0,

'hours': 0,

'tax': 0,

'gross\_pay': 0,

'net\_pay': 0

}

while True:

name = get\_name()

if name == "End":

break

from\_date = get\_from\_date()

to\_date = get\_to\_date()

hours = get\_total\_hours()

hourly\_rate = get\_hourly\_rate()

tax\_rate = get\_tax\_rate()

gross\_pay = get\_gross\_pay(hours, hourly\_rate)

tax, net\_pay = calculate\_tax\_and\_netpay(hours, hourly\_rate, tax\_rate)

# store employee data in a list

employee\_data.append({

'name': name,

'from\_date': from\_date,

'to\_date': to\_date,

'hours': hours,

'hourly\_rate': hourly\_rate,

'tax\_rate': tax\_rate,

'gross\_pay': gross\_pay,

'tax': tax,

'net\_pay': net\_pay

})

# update total

total\_data['employees'] += 1

total\_data['hours'] += hours

total\_data['tax'] += tax

total\_data['gross\_pay'] += gross\_pay

total\_data['net\_pay'] += net\_pay

for employee in employee\_data:

display\_employee\_info(employee)

display\_total\_info(total\_data)

if name == "main":

main()