# Create a loop that will get user input by calling various functions until terminated by the user typing “End.”

# Create a function that will input and return the employee's name and is called inside the loop.

# Create a function that will input and return total hours and is called inside the loop.

# Create a function that will input and return the hourly rate and is called inside the loop.

# Create a function that will input and return the income tax rate and is called inside the loop.

# Create a function that will take total hours, hourly rate, and tax rate as parameters, which will then calculate and return the income tax and net pay—it should also be called inside the loop.

# Create a function that will display employee name, total hours, hourly rate, income tax rate, income tax, and net pay, and is called inside the loop.

# Create a function that will display total number of employees, total hours, total tax, and total net pay.

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 get\_name():

name = input("Enter employee name: ")

return name

def get\_total\_hours():

total\_hours = float(input("Enter total hours: "))

return total\_hours

def get\_hourly\_rate():

hourly\_rate = float(input("Enter hourly rate: "))

return hourly\_rate

def get\_tax\_rate():

tax\_rate = float(input("Enter tax rate (in %): "))

return tax\_rate

def get\_gross\_pay(total\_hours, hourly\_rate):

gross\_pay = float(total\_hours) \* float(hourly\_rate)

return gross\_pay

def display\_employee\_info(name, total\_hours, hourly\_rate, tax\_rate, tax, gross\_pay, net\_pay):

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

print("Employee name:", name)

print("Total hours:", total\_hours)

print("Hourly rate:", hourly\_rate)

print("Tax rate:", tax\_rate)

print("Income tax:", tax)

print("Gross pay:", gross\_pay)

print("Net pay:", net\_pay)

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

def display\_total\_info(total\_employees, total\_hours, total\_tax, total\_gross\_pay, total\_net\_pay):

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

print("Total number of employees:", total\_employees)

print("Total hours:", total\_hours)

print("Total tax:", total\_tax)

print("Total gross pay:", total\_gross\_pay)

print("Total net pay:", total\_net\_pay)

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

def main():

# keep total counts

total\_employees = 0

total\_hours = 0

total\_tax = 0

total\_gross\_pay = 0

total\_net\_pay = 0

while True:

name = get\_name()

if name == "End":

break

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)

display\_employee\_info(name, hours, hourly\_rate, tax\_rate, tax, gross\_pay, net\_pay)

# update total

total\_employees += 1

total\_hours += hours

total\_tax += tax

total\_gross\_pay += gross\_pay

total\_net\_pay += net\_pay

# display total counts

display\_total\_info(total\_employees, total\_hours, total\_tax, total\_gross\_pay, total\_net\_pay)

# import guard

if \_\_name\_\_ == "\_\_main\_\_":

main()