

```
1 # Only submit this *.py file. No need to zip since I only need one file
2 # this time.
3 # 80% For getting this to run and changing it to your name on line 26
4
5 # Since the program as is, prints to the screen in a nice manor but not
6 # to the output file then
7 # 90% for getting the program below to write to the file what you see
8 # on the screen when it runs.
9
10 # On careful examination you will notice the program does not get the
11 # exact correct answers according the instructions on Moodle some lines
12 # are penny or two off.
13
14 # 100% for having the program below get the exact same answers as the
15 # Moodle instructions by using correct mathematics and by rounding at
16 # just the right places.
17
18 # This program uses the records that are
19 # in the FinalProjectBill.txt file
20
21 def main():
22     # Open employees.txt file.
23     emp_file = open('FinalProjectBill.txt', 'r')
24
25     # Open a file for writing.
26     out_file = open('YourFirstNameYourLastNameFinal.txt', 'w')
27
28     # Read the first line from the file, which is
29     # the water_usage field of the first record.
30     water_usage = emp_file.readline()
31
32     # If a field was read, continue processing.
33     while water_usage != '0':
34
35         # Strip the newlines from the fields.
36         water_usage = water_usage.rstrip('\n')
37         print('Water used:', water_usage)
38         print
39         w_used = round(int(water_usage)/100)
40         water_charge = w_used * .012
41         sewer_charge = w_used * .01
42         sub_total = water_charge + sewer_charge
43         ci ty_tax = sub_total * .02
44         total = sub_total + ci ty_tax
45         print('Water charge:', format(water_charge, ',.2f'))
46         print('Sewer charge:', format(sewer_charge, ',.2f'))
47         print('Ci ty tax:', format(ci ty_tax, ',.2f'))
48         print('Total Bill:', format(total, ',.2f'))
49         print('_____')
50
51
52         out_file.write(water_usage+'\n')
53         out_file.write(format(water_charge, ',.2f')+'\n')
54         out_file.write(format(sewer_charge, ',.2f')+'\n')
55         out_file.write(format(ci ty_tax, ',.2f')+'\n')
56         out_file.write(format(total, ',.2f')+'\n')
57
58         print('The water usage is: ')
59
60
```

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61 .....
62 .....# Read the water_usage field of the next record.
63 .....water_usage = emp_file.readline()
64 .....
65 .....# Close the file.
66 .....emp_file.close()
67 .....out_file.close()
68 .....
69 # Call the main function.
70 main()
71 .....
72 .....
```