

Mohammad Ali

ET 574 – BT1

12/08/2021 – Term Project

Professor Robert M. Kueper

Intention of the Program

Overall, I intended to write a python program that would display hotel information such as name, beds, and cost from a data text file. After this program displays this information, it would ask the user the number of nights and the name of the hotel they plan to stay. When the program would receive this information, it would then be able to calculate the total cost and display it to the user. At the end of the program, it would ask the user if they wanted to try again so they can change some of the information. According to the lectures given by my professor, Robert M. Kueper, and after going over the PowerPoints and previous projects, I figured out the codes that I needed and the layout of the code. The first step I needed to do was write a command that imported a package called locale that would allow me to turn the cost section of the data file into a currency format. Then, I would make a heading of the program on line 5. I then would use the open code to read the data that was presented in the file called “data.txt.” Instead of just presenting data, opening data through a text file could allow for future modifications to the prices and the hotel information. After this, similar to my project 8, I intended to use a for loop to tell the program to run lines 14 to 19 for each line that is present in the data file. Line 14 is intended to give value to each part of a line that is separated by spaces. Through line 15 to 18, each column would be assigned to variables. Lastly of this section, the program would display the information in a table format. The next idea was to create a while loop and inside the loop include an input asking for the number of

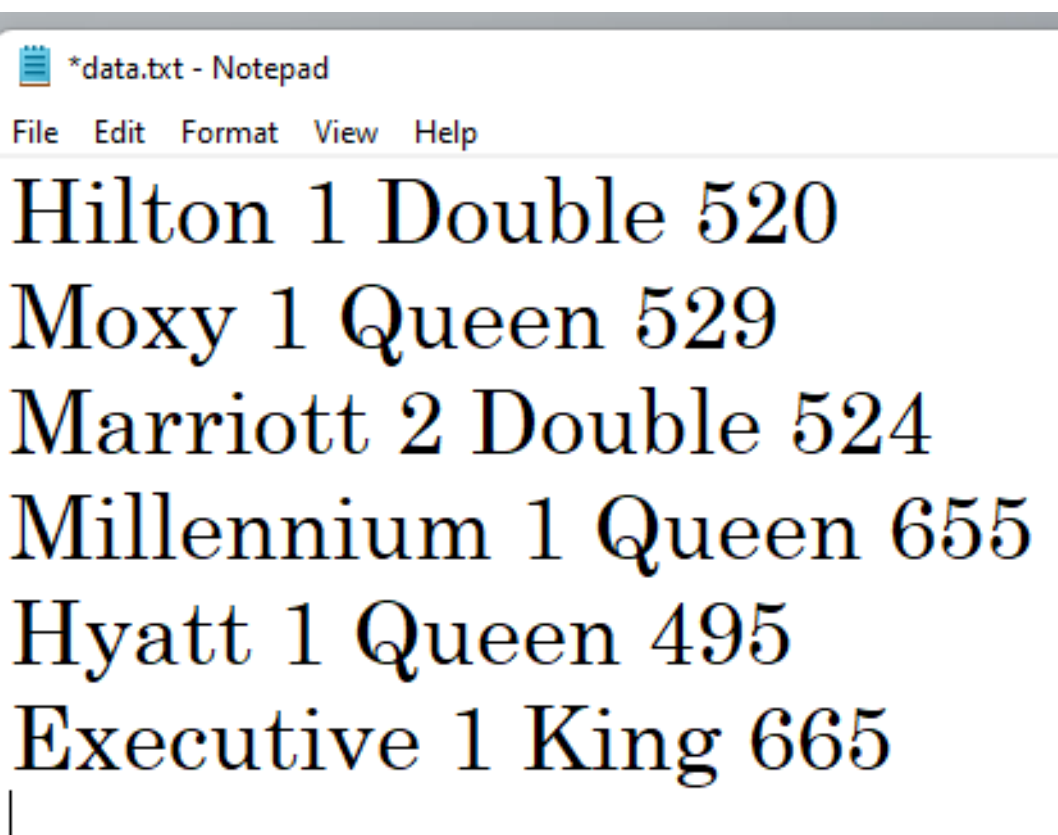
nights the stay is. An if, elif, and else statements would then be used to check which hotel the user input. These statements would then set the cost value per night to another variable which later would need to turn into an integer for a calculation to occur. Last but not least, the program would take the input of the number of nights and the integer value of the cost per night of the selected hotel and multiply these two variables to get the total cost of the stay. Finally, the program would display the total cost and ask if the user wants to try again.

My Python Code and Program

```
1 import locale
2 locale.setlocale(locale.LC_ALL, '')
3
4
5 print ("Final Project by Mohammad Ali - Hotel Cost Calculator")
6 print("")
7
8
9 contents = open("data.txt", "r")
10
11 print ("% -12s%15s%15s" % ("Hotel", "Bed(s)", "Cost"))
12 print ('')
13 for line in contents:
14     dataList = line.split()
15     name = dataList [0]
16     numberOfBed = int(dataList[1])
17     typeOfBed = str(dataList[2])
18     cost = int(dataList[3])
19     hotelCost = (locale.currency(cost))
20     print ("% -15s%6s%7s%16s" % (name, numberOfBed, typeOfBed, hotelCost))
21 print('')
```

```
24 while True:
25
26     B = int(input("How many nights is the stay? "))
27     print ('')
28
29     hotel = str(input("Which hotel? "))
30     if hotel == "Hilton":
31         A = "520"
32     elif hotel == "Moxy":
33         A = "529"
34     elif hotel == "Marriott":
35         A = "524"
36     elif hotel == "Millennium":
37         A = "655"
38     elif hotel == "Hyatt":
39         A = "495"
40     elif hotel == "Executive":
41         A = "665"
42     else:
43         print("Error")
```

```
45     C = int(A)
46
47     print('')
48     print("It will cost $",C,".00 per night for the",hotel,"hotel.")
49
50     Math = B * C
51
52     print("It will cost $",Math,".00 for",B,"night(s).")
53
54     print('')
55     if input('Do you want to try again? Yes or No ') == 'No':
56         break
57     print('')
```



A screenshot of a Notepad window titled '*data.txt - Notepad'. The window has a menu bar with 'File', 'Edit', 'Format', 'View', and 'Help'. The text inside the window is as follows:

Hilton	1 Double	520
Moxy	1 Queen	529
Marriott	2 Double	524
Millennium	1 Queen	655
Hyatt	1 Queen	495
Executive	1 King	665

The text is displayed in a large, black, serif font. A vertical cursor is visible at the end of the last line.

```

Shell x
Final Project by Mohammad Ali - Hotel Cost Calculator

Hotel                Bed(s)                Cost
Hilton                1 Double                $520.00
Moxy                  1 Queen                 $529.00
Marriott              2 Double                $524.00
Millennium            1 Queen                 $655.00
Hyatt                 1 Queen                 $495.00
Executive             1 King                  $665.00

How many nights is the stay? 7

Which hotel? Hilton

It will cost $ 520 .00 per night for the Hilton hotel.
It will cost $ 3640 .00 for 7 night(s).

Do you want to try again? Yes or No Yes

How many nights is the stay? 4

Which hotel? Executive

It will cost $ 665 .00 per night for the Executive hotel.
It will cost $ 2660 .00 for 4 night(s).

```

```

Final Project by Mohammad Ali - Hotel Cost Calculator

Hotel                Bed(s)                Cost
Hilton                1 Double                $520.00
Moxy                  1 Queen                 $529.00
Marriott              2 Double                $524.00
Millennium            1 Queen                 $655.00
Hyatt                 1 Queen                 $495.00
Executive             1 King                  $665.00

How many nights is the stay? 1

Which hotel? Millennium

It will cost $ 655 .00 per night for the Millennium hotel.
It will cost $ 655 .00 for 1 night(s).

Do you want to try again? Yes or No No
>>> |

```