<https://github.com/Badouatom/python-challenge.git>

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| --- |
| # Dependencies |
|  | import csv |
|  |  |
|  | # Files to Load |
|  | file\_to\_load = "Resources/budget\_data\_1.csv" |
|  | file\_to\_output = "Resources/budget\_analysis.txt" |
|  |  |
|  | # Variables to Track |
|  | total\_months = 0 |
|  | total\_revenue = 0 |
|  |  |
|  | prev\_revenue = 0 |
|  | revenue\_change = 0 |
|  | greatest\_increase = ["", 0] |
|  | greatest\_decrease = ["", 9999999999999999999999] |
|  |  |
|  | revenue\_changes = [] |
|  |  |
|  | # Read Files |
|  | with open(file\_to\_load) as revenue\_data: |
|  | reader = csv.DictReader(revenue\_data) |
|  |  |
|  | # Loop through all the rows of data we collect |
|  | for row in reader: |
|  |  |
|  | # Calculate the totals |
|  | total\_months = total\_months + 1 |
|  | total\_revenue = total\_revenue + int(row["Revenue"]) |
|  | # print(row) |
|  |  |
|  | # Keep track of changes |
|  | revenue\_change = int(row["Revenue"]) - prev\_revenue |
|  | # print(revenue\_change) |
|  |  |
|  | # Reset the value of prev\_revenue to the row I completed my analysis |
|  | prev\_revenue = int(row["Revenue"]) |
|  | # print(prev\_revenue) |
|  |  |
|  | # Determine the greatest increase |
|  | if (revenue\_change > greatest\_increase[1]): |
|  | greatest\_increase[1] = revenue\_change |
|  | greatest\_increase[0] = row["Date"] |
|  |  |
|  | if (revenue\_change < greatest\_decrease[1]): |
|  | greatest\_decrease[1] = revenue\_change |
|  | greatest\_decrease[0] = row["Date"] |
|  |  |
|  | # Add to the revenue\_changes list |
|  | revenue\_changes.append(int(row["Revenue"])) |
|  |  |
|  | # Set the Revenue average |
|  | revenue\_avg = sum(revenue\_changes) / len(revenue\_changes) |
|  |  |
|  | # Show Output |
|  | print() |
|  | print() |
|  | print() |
|  | print("Financial Analysis") |
|  | print("-------------------------") |
|  | print("Total Months: " + str(total\_months)) |
|  | print("Total Revenue: " + "$" + str(total\_revenue)) |
|  | print("Average Change: " + "$" + str(round(sum(revenue\_changes) / len(revenue\_changes),2))) |
|  | print("Greatest Increase: " + str(greatest\_increase[0]) + " ($" + str(greatest\_increase[1]) + ")") |
|  | print("Greatest Decrease: " + str(greatest\_decrease[0]) + " ($" + str(greatest\_decrease[1]) + ")") |
|  |  |
|  |  |
|  |  |
|  | # Output Files |
|  | with open(file\_to\_output, "w") as txt\_file: |
|  | txt\_file.write("Total Months: " + str(total\_months)) |
|  | txt\_file.write("\n") |
|  | txt\_file.write("Total Revenue: " + "$" + str(total\_revenue)) |
|  | txt\_file.write("\n") |
|  | txt\_file.write("Average Change: " + "$" + str(round(sum(revenue\_changes) / len(revenue\_changes),2))) |
|  | txt\_file.write("\n") |
|  | txt\_file.write("Greatest Increase: " + str(greatest\_increase[0]) + " ($" + str(greatest\_increase[1]) + ")") |
|  | txt\_file.write("\n") |
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