import os

import csv

cwd = os.getcwd()

#print(cwd)

path = os.path.join("Resources","budget\_data.csv")

months=0

monthcrt=0

monthprev=0

profits=0

changestotal=0

changes=[]

averagechanges=0

greatestmnthinc=0

greatestmnthdec=0

greatestinc=0

greatestdec=0

profitmnth=0

with open(path, newline="") as csvfile:

    csvreader=csv.reader(csvfile, delimiter=",")

    csvheader=next(csvreader)

    for row in csvreader:

        months += 1

        profits += int(row[1])

        monthcrt = int(row[1])

        changes=monthcrt-monthprev

        mntprev=int(row[1])

        if int(row[1]) > greatestinc:

            greatestinc=int(row[1])

            profitmnth=int(row[1])

            greatestmnthinc=row[0]

        elif int(row[1])< greatestdec:

            greatestdec=int(row[1])

            greatestmnthdec=row[0]

print("Financial Analysis")

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

print("Total Months: "+str(months))

print("Total Profit/Losses: $"+str(profits))

print("Average Change: $"+str(averagechanges))

print("Greatest Increase in Profit: "+greatestmnthinc+"($" + str(profitmnth) + ")")

print("Greatest Decrease in Profit: "+greatestmnthdec+"($" + str(greatestdec) + ")")