```
import csv
import plotly.graph_objects as go

#--------------------------------------------------------------------------------
# Calculating the Monthly Sum
#--------------------------------------------------------------------------------
monthly_sum = {}

for row in csv.reader(open('mha.csv')):
	key = (row[1])
	if (row[4].isnumeric()):
		if (key in monthly_sum):
			monthly_sum[key] =    monthly_sum[key] + float(row[4])
		else:
			monthly_sum[key] = float(row[4])

print("================ \n Printing the Monthly Sum \n================ \n")
for mon, new_car_total in monthly_sum.items():
	print (mon, int(new_car_total))

#--------------------------------------------------------------------------------
# Calculating where the old sales is max
#--------------------------------------------------------------------------------
old_sales_max = {}


max_val = 0
corrs_yr = ""
corrs_month = ""
for row in csv.reader(open('mha.csv')):
	if (row[5].isnumeric()):
		if (int(row[5]) > max_val):
			max_val = int(row[5])
			corrs_yr = row[0]
			corrs_month = row[1]


print("\n\n\n================ \n Printing Year, Month for which sales is Max:", corrs_yr, "-",
corrs_month, ", and the value is",    max_val, "\n==================\n ")

#--------------------------------------------------------------------------------
# Calculating Yearly Summary
#--------------------------------------------------------------------------------
yearly_sum_old = {}
yearly_sum_new = {}


for row in csv.reader(open('mha.csv')):
	key = (row[0])
	if (row[4].isnumeric()):
		if (key in yearly_sum_old ):
			yearly_sum_old[key] =    yearly_sum_old[key] + float(row[4])
			yearly_sum_new[key] =    yearly_sum_new[key] + float(row[4])
		else:
			yearly_sum_old[key] = float(row[4])
			yearly_sum_new[key] = float(row[5])
```

```
#-------------------------------------------------------------------------------
# Generating Graph 1 - Year vs Sales
#-------------------------------------------------------------------------------
x_axis = []
y_axis_1 = []
y_axis_2 = []


for y,t in sorted(yearly_sum_old.items()):
	x_axis.append(y)
	y_axis_1.append(t)

for y,t in sorted(yearly_sum_old.items()):
	y_axis_2.append(t)


fig = go.Figure(data=[
	go.Bar(name='Old car sales', x=x_axis, y=y_axis_1),
	go.Bar(name='New car sales', x=x_axis, y=y_axis_2)
])


fig.update_layout(barmode='group')
fig.show()


#-------------------------------------------------------------------------------
# Calculating Monthly Summary for 2019
#-------------------------------------------------------------------------------
monthly_sum_old = {}
monthly_sum_new = {}


for row in csv.reader(open('mha.csv')):
	key = (row[1])
	if (row[4].isnumeric()):
		if(row[0] == '2019'):
			if (key in monthly_sum_old):
				monthly_sum_old[key] =    monthly_sum_old[key] + float(row[4])
				monthly_sum_new[key] =    monthly_sum_new[key] + float(row[4])
			else:
				monthly_sum_old[key] = float(row[4])
				monthly_sum_new[key] = float(row[5])


#-------------------------------------------------------------------------------
# Generating Graph 2 - Month vs Sales for 2019
#-------------------------------------------------------------------------------
x_axis = []
y_axis_1 = []
y_axis_2 = []
```

```
for y,t in sorted(monthly_sum_old.items()):
        x_axis.append(y)
        y_axis_1.append(t)

for y,t in sorted(monthly_sum_old.items()):
        y_axis_2.append(t)


fig = go.Figure(data=[
        go.Bar(name='Old car sales in 2019', x=x_axis, y=y_axis_1),
        go.Bar(name='New car sales in 2019', x=x_axis, y=y_axis_2)
])


fig.update_layout(barmode='group')
fig.show()
```