



SPREADSHEET ANALYSIS

Feb, 2024

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HOW TO READ THE DATA FROM THE SPREADSHEET?

```
# Imported the pandas library to read the data from spreadsheet
import pandas as pd

# 1.how can I read the data from spreadsheet?
#Used the read_data function and defined the path way seperately
file_path = '/Users/burdzhuchaglayan/Desktop/python_project feb 2024/sales.csv'

#used the read_csv function- competable with panda library

data = pd.read_csv(file_path)
#for make sure my code is working I display the rows with print command

print(data)
```

- Import the pandas library to my phycarm.
- Find the pathway for the sales file.
- Used the print command for reading.

| | year | month | sales | expenditure |
|----|------|-------|-------|-------------|
| 0 | 2018 | jan | 6226 | 3808 |
| 1 | 2018 | feb | 1521 | 3373 |
| 2 | 2018 | mar | 1842 | 3965 |
| 3 | 2018 | apr | 2051 | 1098 |
| 4 | 2018 | may | 1728 | 3046 |
| 5 | 2018 | jun | 2138 | 2258 |
| 6 | 2018 | jul | 7479 | 2084 |
| 7 | 2018 | aug | 4434 | 2799 |
| 8 | 2018 | sep | 3615 | 1649 |
| 9 | 2018 | oct | 5472 | 1116 |
| 10 | 2018 | nov | 7224 | 1431 |
| 11 | 2018 | dec | 1812 | 3532 |

Process finished with exit code 0

HOW CAN I COLLECT ALL OF THE SALES FROM EACH MONTH INTO A SINGLE LIST?

```
#2.how can I collect all of the sales from each month into a single list?
#have to created the an empty list

monthly_sales= []

#how do i iterate in python? using for loops
#iterated over each row below

for index, row in data.iterrows():
    #have to access the sales column to collect the data into single list.
    monthly_sales.append(row['sales'])

#use the print command to see if it's correct.
print("Monthly Sales:", monthly_sales)
```

| | year | month | sales | expenditure |
|----|------|-------|-------|-------------|
| 0 | 2018 | jan | 6226 | 3808 |
| 1 | 2018 | feb | 1521 | 3373 |
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Monthly Sales: [6226, 1521, 1842, 2051, 1728, 2138, 7479, 4434, 3615, 5472, 7224, 1812]

Process finished with exit code 0

Monthly Sales: [6226, 1521, 1842, 2051, 1728, 2138, 7479, 4434, 3615, 5472, 7224, 1812]

HOW TO OUTPUT THE TOTAL SALES ACROSS ALL MONTHS?

```
#3.how to output the total sales across all months?
#use the monthly sales list, and defined to system first.

sales = [6226, 1521, 1842, 2051, 1728, 2138, 7479, 4434, 3615, 5472, 7224, 1812]

#calculate the total sales using sum function to add up all the values in list.
total_sales = sum(sales)

#use the print command to see total sales

print('total sales across all months:', total_sales)
```

| | year | month | sales | expenditure |
|----|------|-------|-------|-------------|
| 0 | 2018 | jan | 6226 | 3808 |
| 1 | 2018 | feb | 1521 | 3373 |
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| 3 | 2018 | apr | 2051 | 1098 |
| 4 | 2018 | may | 1728 | 3046 |
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Monthly Sales: [6226, 1521, 1842, 2051, 1728, 2138, 7479, 4434, 3615, 5472, 7224, 1812]
total sales across all months: 45542

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