



Please explain the error:

FileNotFoundError: [Errno 2] No such file or



Hypothesis

The error `FileNotFoundError: [Errno 2] No such file or directory: '/content/drive/My Drive/ObesityDataSet.csv'` indicates that the Python interpreter cannot find the file 'ObesityDataSet.csv' at the specified path '/content/drive/My Drive/'. This is likely due to one of the following reasons:

- The file does not exist at that location:** Make sure the file 'ObesityDataSet.csv' is actually present in your Google Drive under the 'My Drive' folder. Double-check the file name for any typos as well.
- Google Drive is not mounted properly:** The code uses `drive.mount('/content/drive')` to mount your Google Drive to the Colab environment. If this step was not executed successfully, the path `/content/drive/My Drive/` will not be accessible.
- Incorrect file path:** The path `/content/drive/My Drive/ObesityDataSet.csv` might be incorrect. Google Drive might have subfolders or a different structure than assumed.

Suggested Changes

- Verify the file's existence and location in Google Drive:**
 - Go to your Google Drive in your web browser.
 - Navigate to the 'My Drive' folder.
 - Ensure the file 'ObesityDataSet.csv' is present there.
 - If not present, upload the file to the correct location.
- Confirm Google Drive Mounting:**
 - Run the cell containing `from google.colab import drive; drive.mount('/content/drive')` in your Colab notebook.
 - Follow the authentication prompts to grant Colab access to your Drive.
 - A message should appear confirming that the drive was mounted successfully. If not mounted, re-run the code and follow the authorization instructions provided by Google Colab.
- Double-check the file path:**
 - If you made any changes to the file's location within Google Drive, update the `file_path` variable in the code:

import pandas as pd

```
file_path = '/content/drive/My Drive/Obes
df = pd.read_csv(file_path)
```

[Use code with caution](#)

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✓ TUGAS 1 - CAPSTONE PROJECT

1. Dari Google Collab Import ke Drive, Lalu mengkoneksikan ke Drive

```
from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call dr



2. Membaca data di dalam My Drive ObesityDataSet.csv

```
'/content/drive/MyDrive/ObesityDataSet.csv'
```

'/content/drive/MyDrive/ObesityDataSet.csv'

import pandas as pd

file_path = '/content/drive/MyDrive/ObesityDataSet.csv'

df = pd.read_csv('/content/drive/MyDrive/ObesityDataSet.csv')

3. Menampilkan baris, kolom, deskripsi statistik, beberapa baris utama dalam csv.

```
print("Shape (baris, kolom):", df.shape)
print("\nInfo dataset:")
print(df.info())
print("\nDeskripsi statistik:")
print(df.describe(include='all'))
print("\nBeberapa baris pertama:")
print(df.head())
```

Shape (baris, kolom): (2111, 17)

```
Info dataset:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2111 entries, 0 to 2110
Data columns (total 17 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Age                                   2097 non-null  object
1   Gender                               2102 non-null  object
2   Height                               2099 non-null  object
3   Weight                               2100 non-null  object
4   CALC                                 2106 non-null  object
5   FAVC                                2100 non-null  object
6   FCVC                                 2103 non-null  object
7   NCP                                  2099 non-null  object
8   SCC                                  2101 non-null  object
9   SMOKE                                2106 non-null  object
10  CH2O                                 2105 non-null  object
11  family_history_with_overweight       2098 non-null  object
12  FAF                                   2103 non-null  object
13  TUE                                   2102 non-null  object
14  CAEC                                  2100 non-null  object
15  MTRANS                                2105 non-null  object
16  NObeyesdad                           2111 non-null  object
dtypes: object(17)
memory usage: 280.5+ KB
None
```

Deskripsi statistik:

	Age	Gender	Height	Weight	CALC	FAVC	FCVC	NCP	SCC	SMOKE	\
count	2097	2102	2099	2100	2106	2100	2103	2099	2101	2106	
unique	1394	3	1562	1518	5	3	808	637	3	3	
top	18	Male	1.7	80	Sometimes	yes	3	3	no	no	

```

freq      124    1056      58      58      1386    1844      647    1183    1997    2054
count      CH20 family_history_with_overweight    FAF    TUE      CAEC  \
unique    2105      2098    2103    2102    2100
top        1263      3    1186    1130      5
freq       441      1705    404    552    1747

count      MTRANS      NObeyesdad
unique      6      7
top    Public_Transportation    Obesity_Type_I
freq      1572      351

```

Beberapa baris pertama:

```

Age  Gender  Height  Weight      CALC  FAVC  FCVC  NCP  SCC  SMOKE  CH20  \
0   21  Female   1.62    64      no    no    2    3    no    no    2
1   21  Female   1.52    56  Sometimes    no    3    3    yes    yes    3
2   23  Male     1.8     77  Frequently    no    2    3    no    no    2
3   27  Male     1.8     87  Frequently    no    3    3    no    no    2
4   22  Male     1.78   89.8  Sometimes    no    2    1    no    no    2

```

```

family history with overweight    FAF    TUE      CAEC      MTRANS  \

```

4. Mengecheck Jumlah Missing Values Per Kolom dari csv.

```

print("\nJumlah missing values per kolom:")
print(df.isnull().sum())

```



```

Jumlah missing values per kolom:
Age      14
Gender     9
Height    12
Weight    11
CALC       5
FAVC      11
FCVC       8
NCP       12
SCC       10
SMOKE      5
CH20       6
family_history_with_overweight  13
FAF        8
TUE        9
CAEC       11
MTRANS     6
NObeyesdad  0
dtype: int64

```

5. Menghitung Jumlah Nilai Unik Per Kolom, Dari CSV.

```

print("\nJumlah nilai unik per kolom:")
print(df.nunique())

```



```

Jumlah nilai unik per kolom:
Age      1394
Gender     3
Height   1562
Weight   1518
CALC       5
FAVC       3
FCVC     808
NCP     637
SCC       3
SMOKE     3
CH20    1263
family_history_with_overweight  3
FAF     1186
TUE    1130
CAEC     5
MTRANS     6
NObeyesdad  7
dtype: int64

```

6. Check Data Duplikat Yang Kembar, di dalam csv

```

print("\nJumlah data duplikat:", df.duplicated().sum())

```



```

Jumlah data duplikat: 18

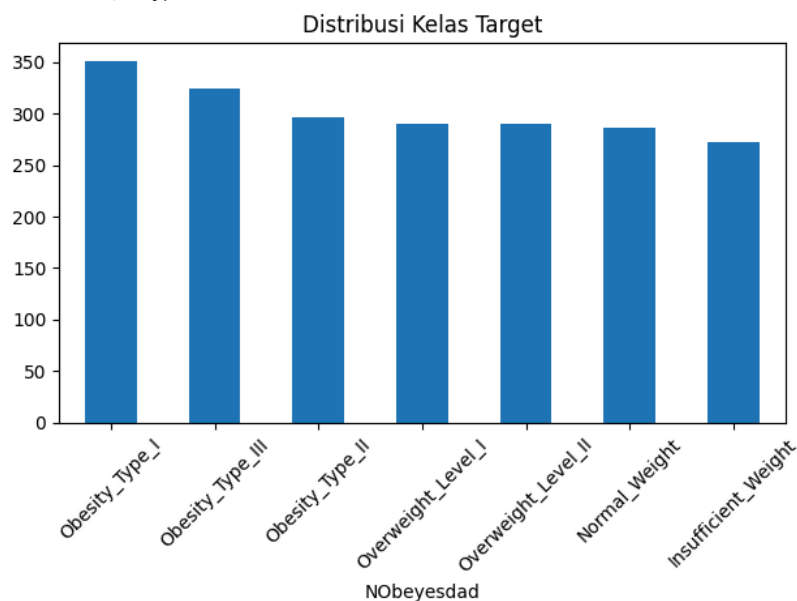
```

7. Mengecheck Distribusi Kelas Target, Pada Kolom

```
if 'NObeyesdad' in df.columns:
    print("\nDistribusi kelas target (NObeyesdad):")
    print(df['NObeyesdad'].value_counts())
    df['NObeyesdad'].value_counts().plot(kind='bar')
    plt.title('Distribusi Kelas Target')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()
```



```
Distribusi kelas target (NObeyesdad):
NObeyesdad
Obesity_Type_I      351
Obesity_Type_III    324
Obesity_Type_II     297
Overweight_Level_I  290
Overweight_Level_II 290
Normal_Weight       287
Insufficient_Weight 272
Name: count, dtype: int64
```



8. Mengkonversikan Objek Ke Float Dalam Bentuk Numerik.

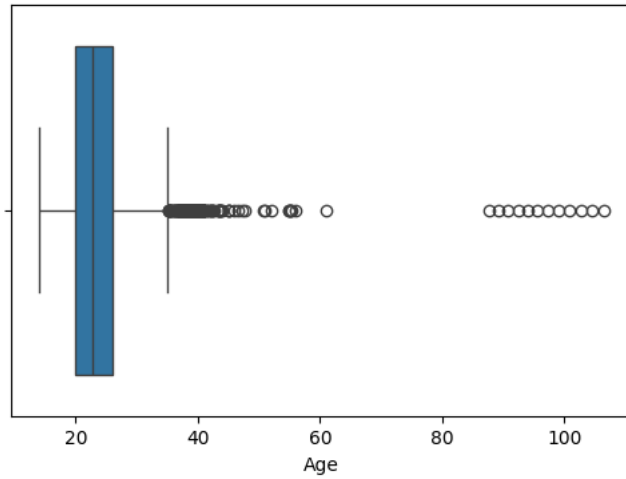
```
kolom_numerik = ['Age', 'Height', 'Weight', 'FCVC', 'NCP', 'CH2O', 'FAF', 'TUE']
for col in kolom_numerik:
    df[col] = pd.to_numeric(df[col], errors='coerce') # invalid parsing jadi NaN
```

9. Mengecheck Heat Map Yang Berkorelasi dengan kolom Numerik.

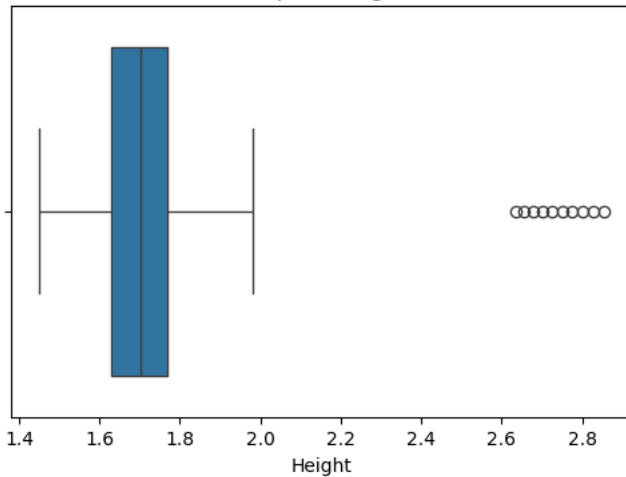
```
for col in kolom_numerik:
    plt.figure(figsize=(6, 4))
    sns.boxplot(x=df[col])
    plt.title(f'Boxplot: {col}')
    plt.show()
```



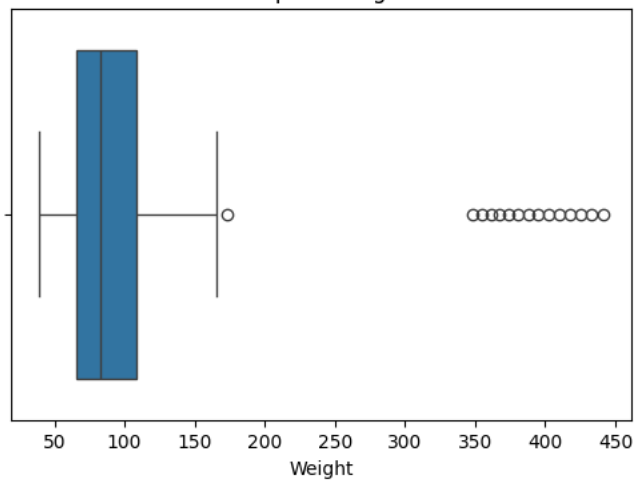
Boxplot: Age



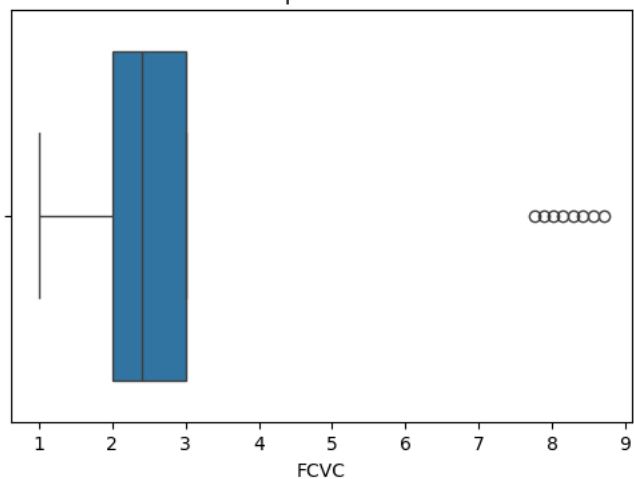
Boxplot: Height



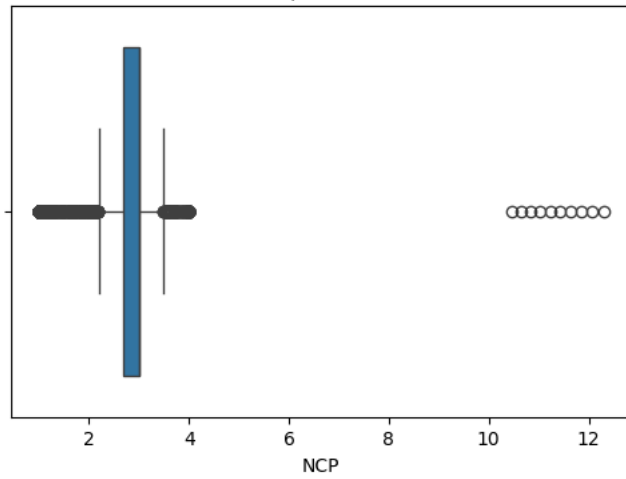
Boxplot: Weight



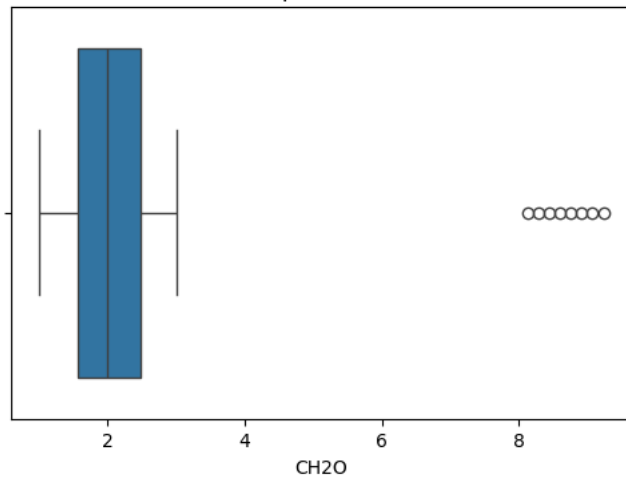
Boxplot: FCVC



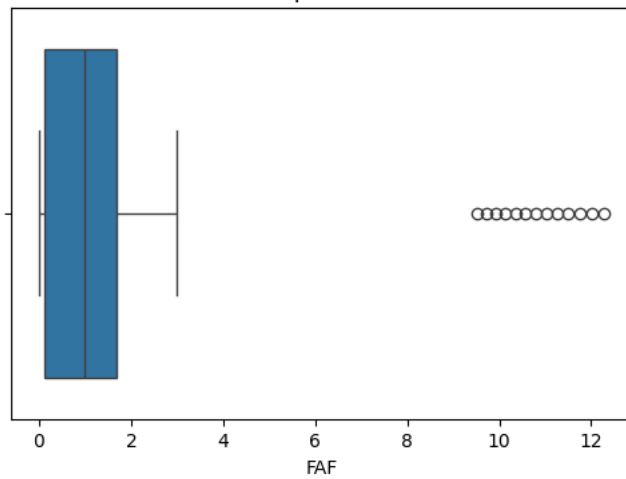
Boxplot: NCP



Boxplot: CH2O



Boxplot: FAF



Boxplot: TUE

