Python Pandas Assignment

Pandas Basic:

```
import pandas


mydataset ={
        'cars':["Bmw","Ford","Ferrari"],
        "price":[1,2,3]
}


my_var = pandas.DataFrame(mydataset)
print(my_var.loc[[0,1]])


a = [1, 7, 2]
myvar = pandas.Series(a, index = ["x", "y", "z"])
print(myvar)


calories = {"day1": 420, "day2": 380, "day3": 390}
myvar = pandas.Series(calories)
print(myvar)


data = {
"calories": [420, 380, 390],
"duration": [50, 40, 45]
```

```
}

myvar = pandas.DataFrame(data)
print(myvar)

data = {
"calories": [420, 380, 390],
"duration": [50, 40, 45]
}
df = pandas.DataFrame(data, index = ["day1", "day2", "day3"])
print(df)

#json

data = {
"Duration":{
        "0":60,
        "1":60,
        "2":60,
        "3":45,
        "4":45,
        "5":60
},
"Pulse":{
        "0":110,
```

```
        "1":117,
        "2":103,
        "3":109,
        "4":117,
        "5":102
  },
  "Maxpulse":{
        "0":130,
        "1":145,
        "2":135,
        "3":175,
        "4":148,
        "5":127
  },
  "Calories":{
        "0":409,
        "1":479,
        "2":340,
        "3":282,
        "4":406,
        "5":300
  }
  }

  df = pandas.DataFrame(data)
```

```
print(df)
```

Output:

```
     cars    price
0     Bmw          1
1    Ford          2
x       1
y       7
z       2
dtype: int64
day1       420
day2       380
day3       390
dtype: int64
     calories    duration
0           420           50
1           380           40
2           390           45
          calories    duration
day1           420           50
day2           380           40
day3           390           45
     Duration    Pulse    Maxpulse    Calories
0           60      110         130         409
1           60      117         145         479
```

2	60	103	135	340
3	45	109	175	282
4	45	117	148	406
5	60	102	127	300

Pandas CSV Files

Executable Code:

```
import pandas as pd


pd.options.display.max_rows = 9999

df = pd.read_csv('fastfood.csv')

print(df.head(20))


hamburger_row = df.loc[df["item"] == "Hamburger"]

print(hamburger_row)

# new_df = df.dropna()

# print(new_df.to_string())
```

Output:

```
PS C:\Users\Lab1004\Desktop\s22_104> py PandaAssignment.py
    restaurant                                                item
calories  ...  vit_c  calcium  salad

0     Mcdonalds                  Artisan Grilled Chicken Sandwich          380
...    20.0       20.0   Other

1     Mcdonalds                       Single Bacon Smokehouse Burger
840   ...    20.0       20.0   Other

2     Mcdonalds                       Double Bacon Smokehouse Burger
1130  ...    20.0       50.0   Other

3     Mcdonalds          Grilled Bacon Smokehouse Chicken Sandwich          750
...    25.0       20.0   Other

4     Mcdonalds            Crispy Bacon Smokehouse Chicken Sandwich
920   ...    20.0       20.0   Other

5     Mcdonalds                                                 Big Mac
540   ...    2.0        15.0   Other

6     Mcdonalds                                             Cheeseburger
300   ...    2.0        10.0   Other

7     Mcdonalds                              Classic Chicken Sandwich
510   ...    4.0         2.0   Other

8     Mcdonalds                                  Double Cheeseburger
430   ...    4.0        15.0   Other

9     Mcdonalds                 Double Quarter Pounder® with Cheese
770   ...    6.0        20.0   Other

10    Mcdonalds                                          Filet-O-Fish®
380   ...    0.0        15.0   Other

11    Mcdonalds                          Garlic White Cheddar Burger
```

620 ... 10.0 35.0 Other

12 Mcdonalds Grilled Garlic White Cheddar Chicken Sandwich 530 ... 20.0 35.0 Other

13 Mcdonalds Crispy Garlic White Cheddar Chicken Sandwich 700 ... 15.0 35.0 Other

14 Mcdonalds Hamburger 250 ... 2.0 4.0 Other

15 Mcdonalds Lobster Roll 290 ... 6.0 15.0 Other

16 Mcdonalds Maple Bacon Dijon 1/4 lb Burger 640 ... 15.0 15.0 Other

17 Mcdonalds Grilled Maple Bacon Dijon Chicken Sandwich 580 ... 30.0 30.0 Other

18 Mcdonalds Crispy Maple Bacon Dijon Chicken Sandwich 740 ... 20.0 290.0 Other

19 Mcdonalds McChicken 350 ... 2.0 4.0 Other

[20 rows x 17 columns]

restaurant item calories cal_fat total_fat ... protein vit_a vit_c calcium salad

14 Mcdonalds Hamburger 250 70 8 ... 13.0 2.0 2.0 4.0 Other

206 Burger King Hamburger 260 90 10 ... 13.0 NaN NaN NaN Other

[2 rows x 17 columns]