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ROLL NO : 127
BATCH : S23

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]
```