Tugas LAB WEEK 1 Christopher Darren

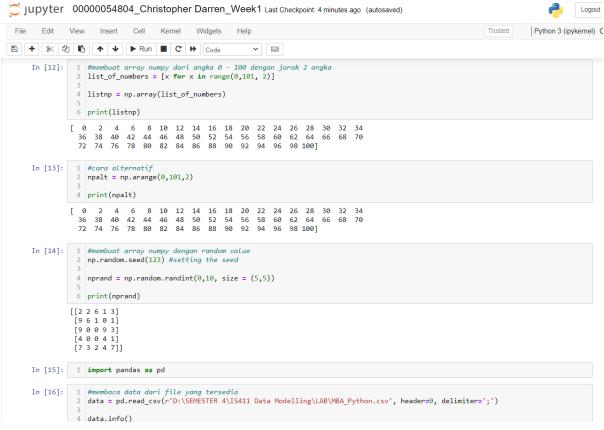
```
In [1]: 1 #define variable
2 text = 'test'
3 angka = 5
4 angka2 = 5.5
       In [2]: 1 #print variable value
                2 print(text)
3 print(angka+angka2)
                10.5
      4 else:
5 print(angka+angka2)
                10.5
       In [4]: 1 #Membuat function
                 def penjumlahan(x,y):
    hasil = x+y
    return(hasil)
                test = penjumlahan(angka,angka2)
print(test)
                10.5
      In [5]: 1 #Menerima input dari user dengan tipe data int
2 angka = int(input('angka baru:'))
3 angka2 = int(input('angka 2 baru: '))
4 test = penjumlahan(angka, angka2)
5 print(test)
                angka baru :12
                angka 2 baru: 20
32
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       In [6]: 1 #konversi number to string
                2 angka_1 = 12

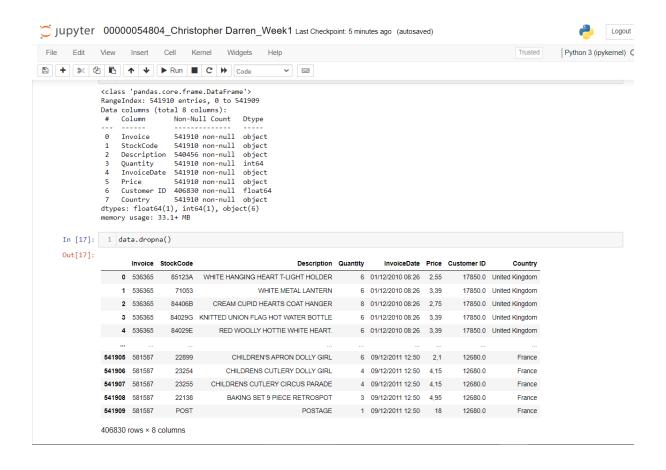
3 angka_2 = 20

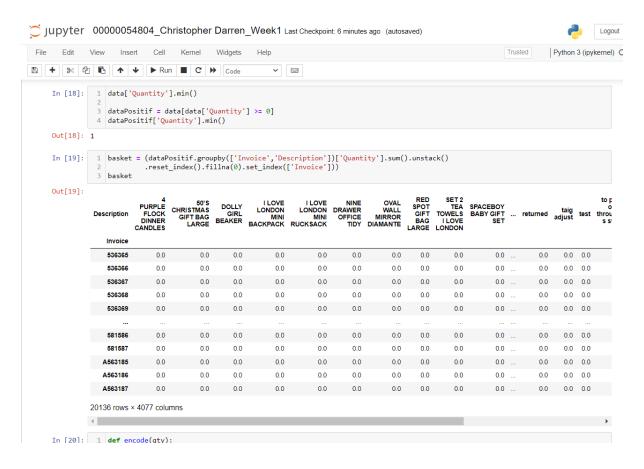
4 print(angka_1+angka_2)

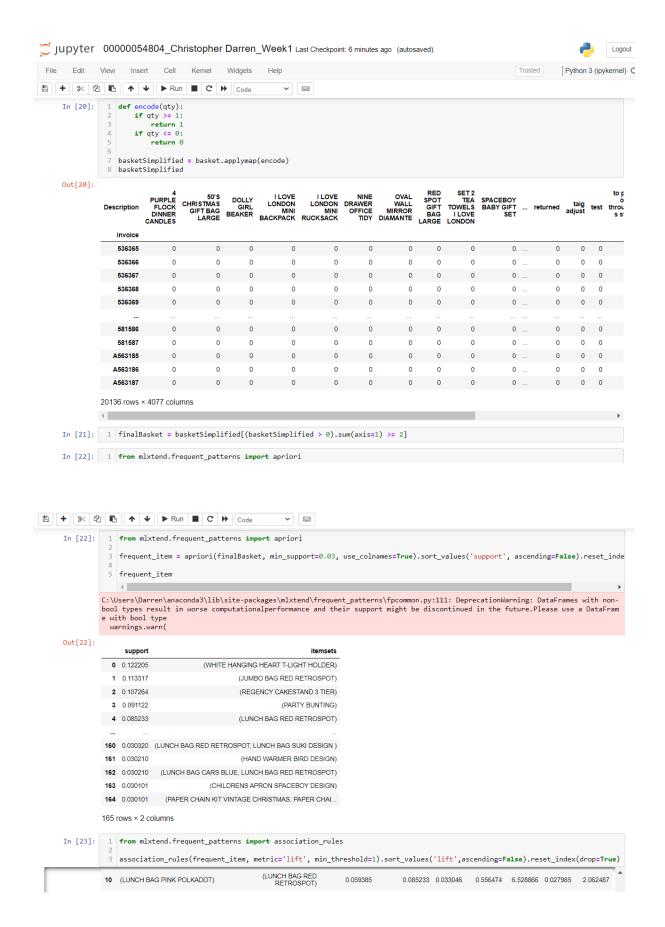
5 print(str(angka_1)+ str(angka_2))
                1220
      In [8]: 1 import numpy as np
       In [10]: 1 #array re-dimensioning
               a = np.array([x for x in range(27)])
a = np.array([x for x in range(27)])
npshape = a.reshape((3,3,3))
print(npshape)
```

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In [10]: 1 #array re-dimensioning
2 a = np.array([x for x in range(27)])
                4 npshape = a.reshape((3,3,3))
5 print(npshape)
                [[[0 1 2]
                 [ 3 4 5]
[ 6 7 8]]
                [[ 9 10 11]
[12 13 14]
[15 16 17]]
                [[18 19 20]
[21 22 23]
[24 25 26]]]
     In [11]: 1 #stacking numpy array
2 a1 = np.array([[1,2,3]
                 4
5
6 a2 = np.array([[7,8,9],
[10,11,12]])
                 8 npstack = np.hstack((a1,a2))
                10 print(npstack)
                [[ 1 2 3 7 8 9]
[ 4 5 6 10 11 12]]
     In [12]: 1 #membuat array numpy dari angka 0 - 100 dengan jarak 2 angka
2 list_of_numbers = [x for x in range(0,101, 2)]
                 4 listnp = np.array(list_of_numbers)
                 6 print(listnp)
                       2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34
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In [23]: 1 from mlxtend.frequent_patterns import association_rules association_rules(frequent_item, metric='lift', min_threshold=1).sort_values('lift',ascending=False).reset_index(drop=True) Out[23]: antecedent support consequent support confidence consequents lift leverage conviction 0 (PINK REGENCY TEACUP AND SAUCER) (GREEN REGENCY TEACUP AND SAUCER) $0.055350 \quad 0.034518 \qquad 0.831800 \quad 15.028131 \quad 0.032222 \qquad 5.616242$ 0.041499 1 (GREEN REGENCY TEACUP AND SAUCER) (PINK REGENCY TEACUP AND SAUCER) 0.055350 0.041499 0.034518 0.623645 15.028131 0.032222 2.546804 2 (ROSES REGENCY TEACUP AND SAUCER) (PINK REGENCY TEACUP AND SAUCER) 0.057967 0.041499 0.032664 0.563500 13.578784 0.030259 2.195877 3 (PINK REGENCY TEACUP AND SAUCER) (ROSES REGENCY TEACUP AND SAUCER) 0.041499 $0.057967 \quad 0.032664 \qquad 0.787122 \quad 13.578784 \quad 0.030259 \qquad 4.425229$ (GREEN REGENCY TEACUP AND SAUCER) (ROSES REGENCY TEACUP AND SAUCER) 0.055350 0.057967 0.041880 0.756650 13.053107 0.038672 3.871107 (ROSES REGENCY TEACUP AND SAUCER) (GREEN REGENCY TEACUP AND SAUCER) 0.055350 0.041880 0.722484 13.053107 0.038672 3.403944 0.057967 (ALARM CLOCK BAKELIKE GREEN) 6 (ALARM CLOCK BAKELIKE RED 0.057258 0.053168 0.034900 0.609524 11.464049 0.031856 2.424813 In []: 1