Cheatography

exam 3 Cheat Sheet by rjyurk100 via cheatography.com/208728/cs/45067/

Define a function = def hello(): print('Hello World') Then invoke it with = hello() Define a function with a PARAMETER (argument) Def welcom e(n ame): Print (f ' Hello, {name} ') Invoke it with = welcome('Amy') Two required Parame ters: Def welcom e_g ree tin g(name, greeti ng_ text): print(f ' Hey, {name}. {greet ing _text} ') Invoke it with = welcom e g ree ting('Liz' , 'How are you?') - these are known as KWARG Define a method to do a calcul ation Def expone nt(base, exponent): Power = base ** exponent Return power Numl = 2 $N_{11}m_2 = 3$ Answer = expone nt(num1, num2) print(answer) print(expone nt(2,3)) Def sum of nu mbers (*param eters): Total = 0For each n umber in parame ters: Total = total + each n umber Return total Sum = sum of nu mbe rs(1,2,3,4,5,6)print(sum

```
Df = pd.read_csv(url)
print( df.t o_ str ing())
Null is null, a null is something = a special
creation to indicate the absence of a value - its a
made up value
Df.shape = not a method does not need ()
Look at only one column = df['School Name']
print( df[ 'School Name' ].to s tring( ))
```

16 (cont)

```
> Find the unique names= df['School Name'].unique()
type(unique_schools) shows the type.. This is not a data frame
Statistics:
df['Starting Salary'].max() or df['Starting Salary'].mean() or df['St-
arting Salary'].min()
Find the NAs = df['Starting Salary'].isna() then to count the trues =
na_rows.sum()
Based on a condition
Df2 = df.query(" Starting Salary > 75000 ")
```

Change individual values Df.loc[20, 'Starting Salary'] = ' ' Convert to numeric type = df['St arting Salary'] = pd.to num eric(df['St arting Salary']) Df.loc [139, 'Starting Salary'] = 46000#Convert starting salary to numeric FORCE CONVERT or "COERCE" conversion Error columns = pd.to num eric(df['St arting Salary'], errors= `coerce') print(err or_ col umns) #find the NAs Nas = error col umn s.i sna() print(Nas) Df[20:25] #fix columns Df.loc[70, 'Starting Salary'] = 42600 df[Nas] Save it to the original by overwr iting df['St arting Salary'] = pd.to num eri c(d f[' -Sta rting Salary'])

Import pandas as pd Data list = [45, 74, 78]Series of nu mbers = pd.ser ies (da ta list) print(ser ies _of _nu mbe rs[1]) Years = [2021, 2022, 2023]Create series with labels and use KWARG Series of nu mbers = pd.ser ies (da ta= dat a list, index= years) print(ser ies of nu mbers) Show me the value for 2021

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15 (cont)

> print(series_of_numbers[2021]) Create a series with integrated data labels Grade_distribution = {'A' : 34, 'B' : 56} Convert the dictionary ^ to a series = grade_series = pd.series(data=grade_distribution) print(grade_series) or print(grade_series['A']) 2 dimensional data - in multiple lists Quiz_scores = { 'Quiz1' : [32, 56, 56] , 'Quiz2' : [78, 34, 32]} Df = pd.DataFrame(data=quiz_scores) print(df) Overwrite the df like this: Df = pd.DataFrame(data=quiz_scores, index=['Mike' , 'Susan', 'Amy'] df.head() = top 5 rows df.tail() = bottom 5 rows df[40:60] = select row

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Find all the schools with the name Pitt
Df2 = df.query(`` School Name == `Pitt' ``)
df2.head()
Remove a column: df.dro p(c olu mns ='S tarting
Salary', inplace = True)
Or df = df.dro p(c olu mns ='S tarting Salary')
Drop a row df.dro p(i ndex=2, inplace = True)
Delete entire row of data when one column had
missing data df=df.d ro pna()

19

```
Load descriptives for the df = df.describe()
Load tab-de lim itted file
Df2 = pd.rea d_c sv(URL, sep='t')
Replace function:
Df[ 'School Name'].re pla ce('-', ' -', regex= -
True, inplac e=True)
Fillnas = df['St arting Salary '].f il lna(0,
inplac e=True)
How many unique school names are there:
len( df['School Name'].un ique())
Show only the rows in which df are duplicate:
Duplicates = df.dup lic ate d(s ubset= 'School
Name')
Boolean series = df[dup lic ates]
Df2 = df.dro p d upl ica tes (su bse t=' School
Name', keep=' first')
```

19 (cont)

> Find out schools with specified
PA_schools = df2['School Name'].str.contains('Pennsylvania')
Use a boolean series df2[PA_schools]
Overwrite instead on inplace
Df2 = df2.sort_values('Starting Salary', ascending = False)
Fix one bad value:
Df2.loc[2, 'Starting Salary'] = df2['Starting Salary'].mean()

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```
Load descriptives for the df = df.describe()
Load tab-de lim itted file
Df2 = pd.rea d c sv(URL, sep=' \t')
Replace function:
Df[ 'School Name'].re pla ce('-', ' -', regex= -
True, inplac e=True)
Fillnas = df['St arting Salary '].f il lna(0,
inplac e=True)
How many unique school names are there:
len( df['School Name'].un ique())
Show only the rows in which df are duplicate:
Duplicates = df.dup lic ate d(s ubset= 'School
Name')
Boolean series = df[dup lic ates]
Df2 = df.dro p d upl ica tes (su bse t=' School
Name', keep=' first')
Find out schools with specified
PA schools = df2['S chool Name'].st r.c ont ain -
s(' Pen nsy lva nia')
Use a boolean series df2[PA sc hools]
Overwrite instead on inplace
Df2 = df2.so rt_ val ues ('S tarting Salary',
ascending = False)
Fix one bad value:
Df2.loc[2, 'Starting Salary'] = df2['S tarting
Salary '].m ean()
```

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