1. Read data from different formats
   1. csv: pd.read\_csv(‘filename’)
   2. excel sheet: pd.read\_excel(‘filename)
   3. tsv: pd.read\_csv(‘filename’, delimiter=’\t’)
2. Read each row
   1. iloc: df.iloc[0] #print the 1st row
   2. iloc: df.iloc[0:4] #print the first 4 rows
3. Read a specific location (Row, column)

df.iloc[2,1]

1. Iterate over rows using Pandas

for index, row in df.iterrows():

print (index, row) **OR**

print (index, row[column\_name])

1. Get rows with certain values in columns
   1. df[df[column\_name]==’text’]
   2. df.loc[df[column\_name]==’text]
2. Sorting data
   1. df.sort\_values(by=column\_name, ascending=False/ True)
   2. df.sort\_values(by=[column 1, column 2, …], ascending=False/ True)
   3. df.sort\_values(by=[column 1, column 2, …], ascending=[1, 0, …])
3. Data Operations: Add

Columns of df: #, Name, Type 1, Type 2, Legendary, HP, Attack, Defence, Sp. Atk, Sp. Def, Speed, Generation

* 1. df[‘Total]= df[‘HP’] + df[‘Attack’] + df[‘Defence’] + df[‘Sp. Atk’] + df[‘Sp. Def’] + df[‘Speed’] + df[‘Generation’]
  2. df[‘Total]= df.iloc[: , 5: ].sum(axis=1)

1. Filter Data
   1. new\_df= df[(df[column\_name 1]==value 1) & (df[column\_name 2]==value 2)]

new\_df.reset\_index(drop=True, inplace= True)

1. Advanced Filtering
   1. New\_df= df[df[column\_name].str.contains(‘yli’)]
2. Conditional Changes
   1. df.loc[df[column\_name]==’Fire’, column\_name] = ‘Flamer’ #replace a string with other string
   2. df.loc[df[column 1]==’Fire’, column\_2] = True