**10. Pandas i csv**

import pandas as pd  
  
path = 'C://Users//kamil//Desktop//Uczelnie//aWSB//1\_zimowy21\_22//Podyplomowe//Chorzów - 16h + 8h//2. zdalne Katowice 12.02.2022//1. Python dev//pliki//pokemon.csv'  
  
data = pd.read\_csv(path, delimiter=',')  
print(data.head(4))  
print(data.columns)  
print(data[['Name', 'Type 1', 'HP']][0:5])  
print(data.iloc[1:4])  
print (data.iloc[2,1])  
  
for index, row in data.iterrows():  
 print(index, row[['Name','Type 1']])  
  
print (data.loc[data['Type 1'] == 'Fire'])  
  
print(data.describe())  
  
# print(data.sort\_values('Name', ascending=False))print(  
# print(data.sort\_values(['Type 1','Speed']))  
#print(data.sort\_values(['Type 1','Speed'], ascending=False))  
# najpierw Type 1, dalej HP  
#print(data.sort\_values(['Type 1','Speed'], ascending=[1,0]))  
#Type 1 - ascending, Speed descending

#making changes to the data  
  
# print(data.head(5))  
# data['Total'] = data['HP'] + data['Attack'] + data['Defense']  
# print(data.head(5))  
# data = data.drop(columns=['Total'])  
# print(data.head(5))

# print(data.iloc[3])  
# data['Total'] = data.iloc[:, 4:10].sum(axis=1)  
# cols = list(data.columns)  
# data = data[cols[0:4] + [cols[-1]] + cols[4:12]]  
# print(data.iloc[3])  
# #dodanie kolumny i zamiana kolumn  
#  
# data.to\_csv('C:\\Users\\kamil\\Desktop\\modified\_pokemon.csv', index=False, sep=';')  
# data.to\_excel('C:\\Users\\kamil\\Desktop\\modified\_pokemon.xlsx', index=False)  
# data.to\_csv('C:\\Users\\kamil\\Desktop\\modified\_pokemon.txt', index=False, sep='\t')