```
ountry4['area'].fillna(-9999,inplace = True)
ountry4['capital'].fillna('unknown',inplace = True)
ountry4['population'].fillna(-9999,inplace = True)
 ountry4['density'].fillna(-9999,inplace = True)
country4[country4['population']>20000000] | country5 = country4.dropna(axis=0, how='any', inplace=False)
 penguins.corr(method='pearson') | penguins2 =penguins.dropna(axis=0, how='any', inplace=False) | r2, pval = pearsonr(penguins2['bill_length_um']) | penguins2['bill_depth_um'])
   = sm.add_constant(student['Income'])
student_fit = sm.OLS(student['Expense'], x).fit()
x,y = student_fit.params
print("極團 園刊 모평: y = x * "+ str(y) + str(x))
sns.lmplot(x='Income', y='Expense', data=student, ci = 95)
print("alpha:", penguins_fit1.t_test([1,0]))
print("beta:",penguins_fit1.t_test([0,1]))
ypred2 = penguins_fit1.get_prediction(x)
result2 = ypred2.summary_frame(alpha=0.05).round(4)
result2.head()
data_fit = smf.ols("Total~C(Location, Sum)", data=data).fit()
table_= sm.stats.anova_lm(data_fit)
print(table)
jf table.at['C(Location, Sum)','PR(>F)'] > 0.05:
print("의자의 위치기 사고 위협 점수에 영향이 없다.")
 else :
 print("의자의 위치가 사고 위험 점수에 영향이 있다.")
data1.boxplot("Yield", by="Fertil") from scipy.stats import chi2_contingency
data1.groupby("Fertil").agg({'Yield':['mean','std','min','max']})
comp = mc.MultiComparison(data1['Yield'], data1['Fertil'])
comptable, _, _ = comp.allpairtest(stats.ttest_ind, method="bonf")
comptable
table1 = pd.crosstab(index = data1["Health"], columns = data1["Smoking"])
chi2, pval, dof, expected = chi2_contingency(table1)
print('Test statistic: ',np.round(chi2,4))
print('p-value :', np.round(pval,6))
print('Degrees of freedom :', dof)
print('Expected Freq :', expected)
x_train, x_test, y_train, y_test = train_test_split(data1[['X1','X2','X3','X4','X5','X6','X7','X8','X9']],
                                   data1['Y'],
 odel1 = LogisticRegression(tol=1e-06).fit(x_train, y_train)
y_pred = model1.predict(x_test)
print(classification_report(y_test, y_pred, target_names=['class 0', 'class 1']))
 _train, x_test, y_train, y_test = train_test_split(data1[['X1','X2','X3','X4','X5']],
toyes = Sequential()
toyes.add(Dense(units=1, activation = 'linear'))
toyes.compile(loss = 'mean_squared_error')
print(toyes.predict(x_test))
read csv('file name.csv', index col = n)
                                             import numpy as np
  Read csv files
-. Index_col=n: set the index column to n th column import pandas as pd
                                        import statsmodels.formula.api as import statsmodels.api as am
import seaborn as sns
import statsmodels.api as sm import matplotlib.pyplot as plt import statsmodels.api as sm import matplotlib.pyplot as plt import statsmodels.api as sm import tatsmodels.stats.multicomp as m from scipy import stats
import random

from tensorflow.keras.models import Sequential
from sklearn.model_selection import train_test_split
from sklearn.linear model import LogisticRegression
from sklearn.metrics import classification_report

from sklearn.medel.election import train_test_split
import matplotlib.pyplot as plt
```