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In [17]:
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import matplotlib
%matplotlib inline
In [2]:
df=pd.read csv("../input/body-fat-prediction-dataset/bodyfat.csv")
In [3]:
df.head()
In [23]:
def plot hist(variables):
    df[variables].plot.hist()
    print(variables)
    plt.show()
In [24]:
for c1 in list(df.columns):
   plot hist(c1)
In [26]:
import seaborn as sns
sns.pairplot(df)
In [ ]:
In [27]:
Y=df['BodyFat']
X=df.drop('BodyFat',axis=1)
In [28]:
import sklearn
from sklearn.linear_model import LinearRegression
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler
In [ ]:
xtrain, xtest, ytrain, ytest=train test split(X, Y, test size=0.2)
In [29]:
ss= StandardScaler()
scaled train= ss.fit transform(xtrain)
scaled test = ss.fit transform(xtest)
In [30]:
from sklearn.neighbors import KNeighborsRegressor
knn= KNeighborsRegressor()
knn.fit(scaled train,ytrain)
print(knn.score(scaled test,ytest))
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In [32]:
from sklearn.ensemble import RandomForestRegressor
rf = RandomForestRegressor()
rf.fit(scaled_train, ytrain)
print(rf.score(scaled_test,ytest))
In [34]:
from sklearn.tree import DecisionTreeRegressor
dtc = DecisionTreeRegressor()
dtc.fit(scaled_train,ytrain)
print(dtc.score(scaled_test, ytest))
In [35]:
regr=LinearRegression()
regr.fit(xtrain,ytrain)
regr.score(xtest, ytest)
In [13]:
In [15]:
In [16]:
In [ ]:
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