

```
In [50]: #importing libraries
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.svm import SVC
from sklearn.utils import shuffle
import matplotlib.pyplot as plt
```

```
In [25]: import os.path
from os import path
```

```
In [33]: os.getcwd()
```

```
Out[33]: 'C:\\Users\\ojoaad\\Practice Projects\\Untitled Folder 2'
```

```
In [41]: #Load the dataset
data = pd.read_csv("data.csv")
```

```
In [42]: data.head()
```

```
Out[42]:
```

	school	sex	age	address	famsize	Pstatus	Medu	Fedu	Mjob	Fjob	...	famrel	freetime	goout	Dalc	Walc	health	absences	G1	G2	G3
0	GP	F	18	U	GT3	A	4	4	at_home	teacher	...	4	3	4	1	1	3	4	0	11	11
1	GP	F	17	U	GT3	T	1	1	at_home	other	...	5	3	3	1	1	3	2	9	11	11
2	GP	F	15	U	LE3	T	1	1	at_home	other	...	4	3	2	2	3	3	6	12	13	12
3	GP	F	15	U	GT3	T	4	2	health	services	...	3	2	2	1	1	5	0	14	14	14
4	GP	F	16	U	GT3	T	3	3	other	other	...	4	3	2	1	2	5	0	11	13	13

5 rows × 33 columns

```
In [43]: data = data[["G1", "G2", "G3", "studytime", "failures", "absences"]]
predict = "G3"
```

```
In [44]: x = np.array(data.drop([predict], 1))
y = np.array(data[predict])
```

C:\Users\ojoaad\AppData\Local\Temp\ipykernel\_1076\49942920.py:1: FutureWarning: In a future version of pandas all arguments of DataFrame.drop except for the argument 'labels' will be keyword-only

```
x = np.array(data.drop([predict], 1))
```

```
In [45]: from sklearn.model_selection import train_test_split
xtrain, xtest, ytrain, ytest = train_test_split(x, y, test_size=0.2)
```

```
In [46]: linear_regression = LinearRegression()
linear_regression.fit(xtrain, ytrain)
```

```
Out[46]: LinearRegression()
```

```
In [48]: accuracy = linear_regression.score(xtest, ytest)
print(accuracy)
```

0.8038569421846133

```
In [49]: predictions = linear_regression.predict(xtest)
         for i in range(len(predictions)):
             print(predictions[x], xtest[x], [ytest[x]])
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[13, 12, 13, 10, 11]], dtype=int64)]
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In [ ]:

In [ ]: