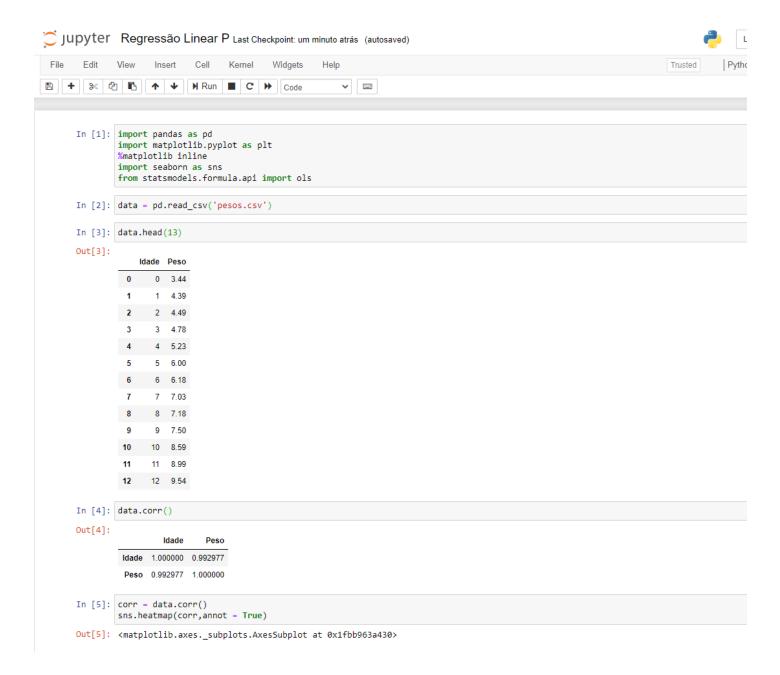
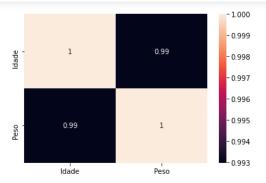
Aluno: Jhonatan Goulart Mendes

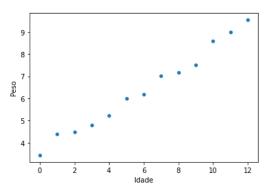
Engenharia Elétrica 3108N





In [6]: sns.scatterplot(x='Idade' , y='Peso', data=data)

Out[6]: <matplotlib.axes._subplots.AxesSubplot at 0x1fbb973fb20>



```
In [7]: formula = 'Peso ~ Idade'
    modelo_v1 = ols (formula, data = data).fit()
    modelo_v1.summary()

C:\Users\Jhonatan\anaconda3\lib\site-packages\scipy\stats\stats.py:1603: UserWarning: kurtosistest only valid for n>=20 ... or
    tinuing anyway, n=13
    warnings.warn("kurtosistest only valid for n>=20 ... continuing "
```

Out[7]: OLS Regression Results

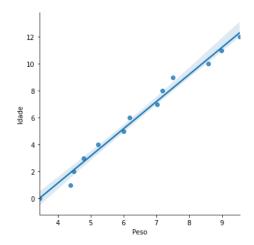
| Dep. Variable: | Peso | |) | R-squared: | | 0.986 |
|-------------------|---------|------------------------|----------|-----------------|--------|----------|
| Model: | | OLS | | Adj. R-squared: | | 0.985 |
| Method: | Lea | Least Squares | | F-statistic: | | 774.9 |
| Date: | Tue, 15 | Tue, 15 Sep 2020 Prob | | (F-stati | stic): | 1.50e-11 |
| Time: | | 19:15:55 Log | | g-Likelihood: | | 1.3432 |
| No. Observations: | | 13 | | AIC: | | 1.314 |
| Df Residuals: | | 11 | | | BIC: | 2.444 |
| Df Model: | 1 | | | | | |
| Covariance Type: | | nonrobus | t | | | |
| coef | std err | t | P> t | [0.025 | 0.975] | |
| Intercept 3.4737 | 0.124 | 27.937 | 0.000 | 3.200 | 3.747 | |
| Idade 0.4895 | 0.018 | 27.837 | 0.000 | 0.451 | 0.528 | |
| Omnibus: | 0.138 | .138 Durbin-Watson: | | 1.980 | | |
| Prob(Omnibus): | 0.933 J | arque-Be | ra (JB): | 0.349 | | |
| Skew: | 0.089 | .089 Prob(JB) : | | 0.840 | | |
| Kurtosis: | 2.218 | Co | nd. No. | 13.6 | | |

Warnings:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

In [8]: sns.lmplot(x='Peso', y='Idade', data=data,fit_reg=True)

Out[8]: <seaborn.axisgrid.FacetGrid at 0x1fbb97cf700>



In []: