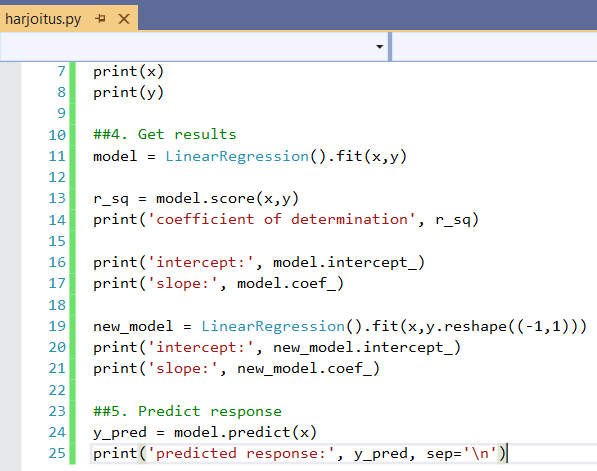
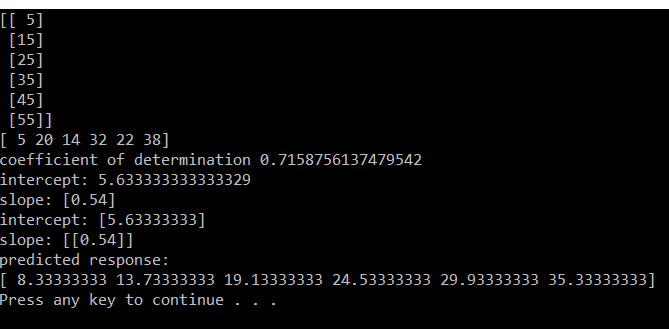
# Raportti tutoriaalin tekemisestä

Tutoriaali löytyy osoitteesta: <https://realpython.com/linear-regression-in-python/>

Ensin Simple Linear Regression With scikit-learn

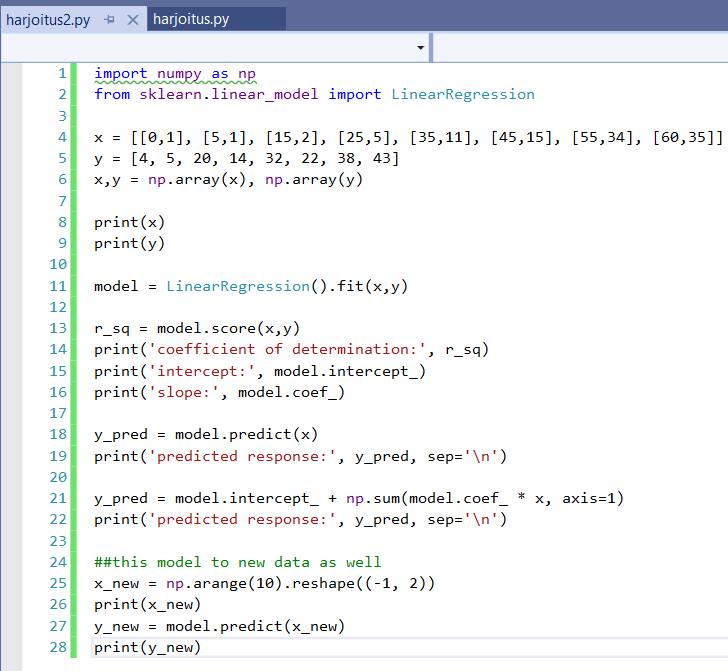
.intercept\_ is a scalar, while .coef\_ is an array

Tulostuu:

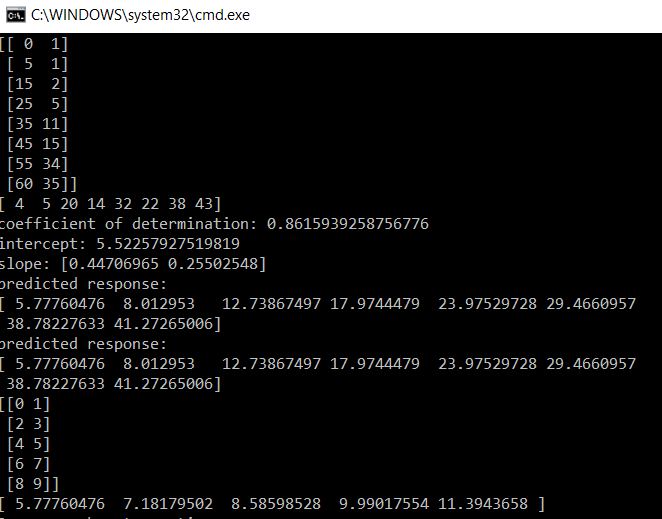


Tutoriaali opastaa hyvin ja tarkasti, kertoo kaikki mitä tehdään ja avaa koodin ja kaavat.

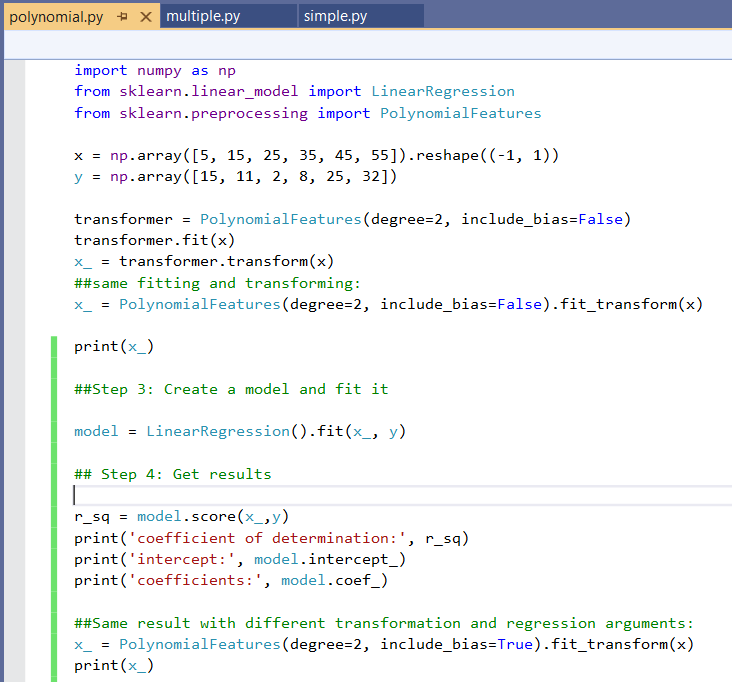
Seuraavaksi Multiple Linear Regression With sckikit-learn

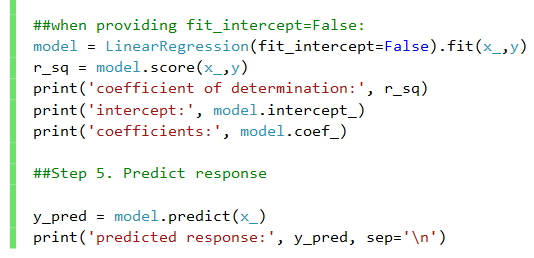


Tulostuu:

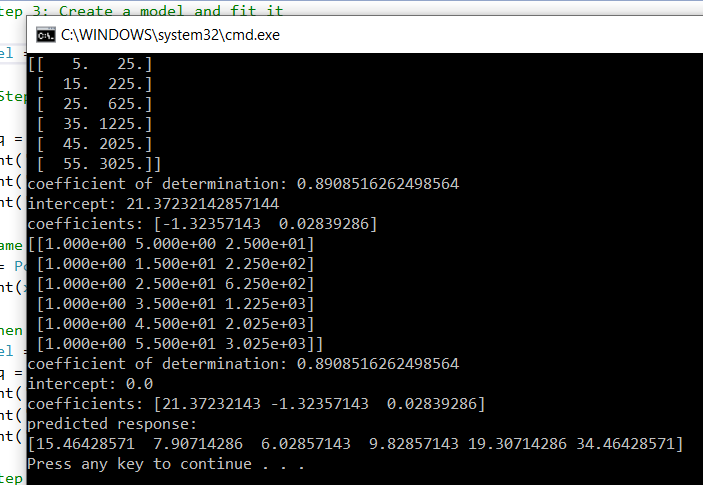


Seuraavaksi Polynomial Regression With scikit-learn



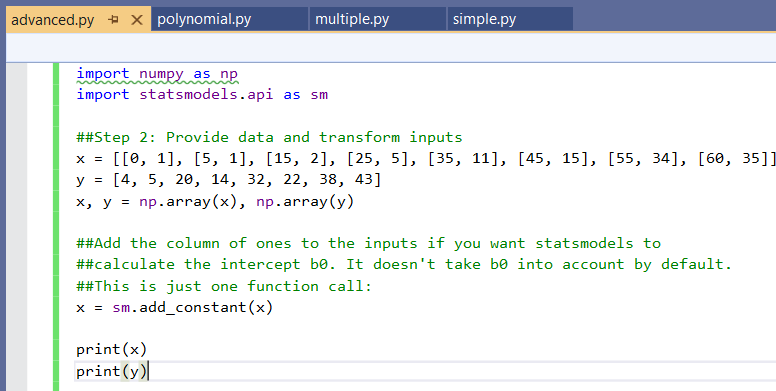


Tulostuu:

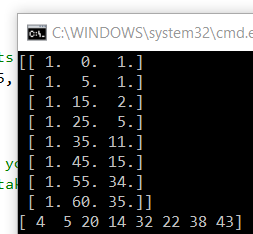


Seuraavaksi Advanced Linear Regression with statsmodels:

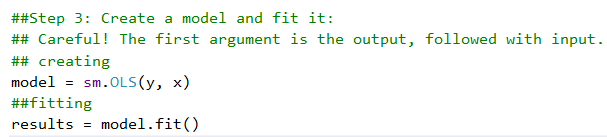
Ensin:

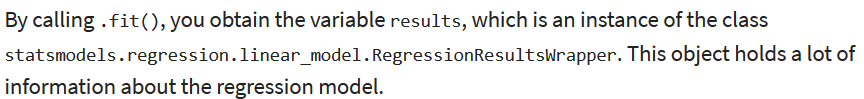


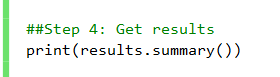
Tulostuu:



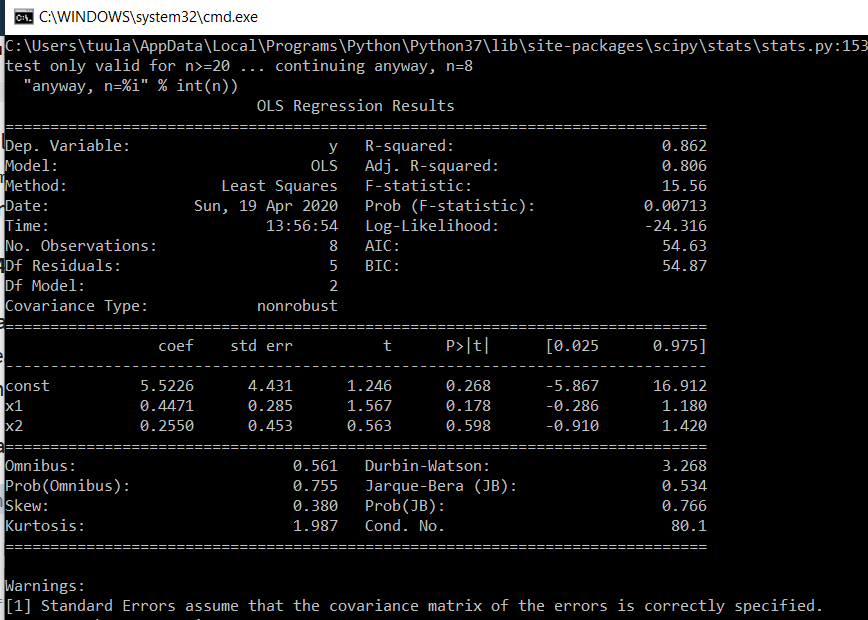
Eli kolme saraketta x:lle: the first column of ones (corresponding to 𝑏₀ and replacing the intercept) as well as two columns of the original features.

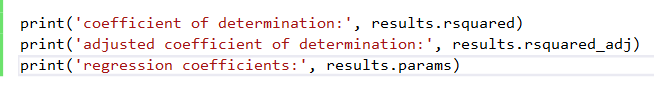






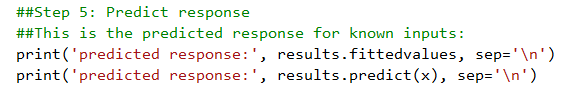
Tulostuu:



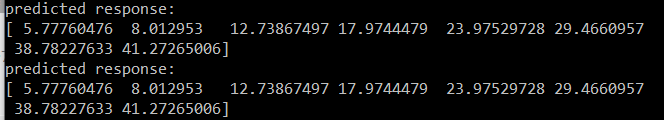


Tulostuu:

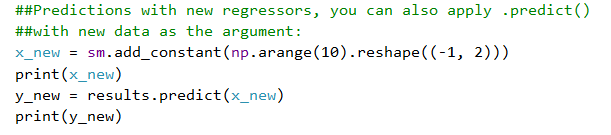




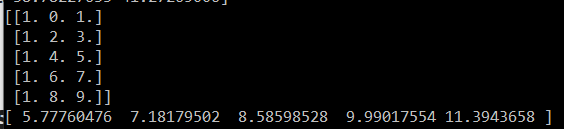
Tulostuu:



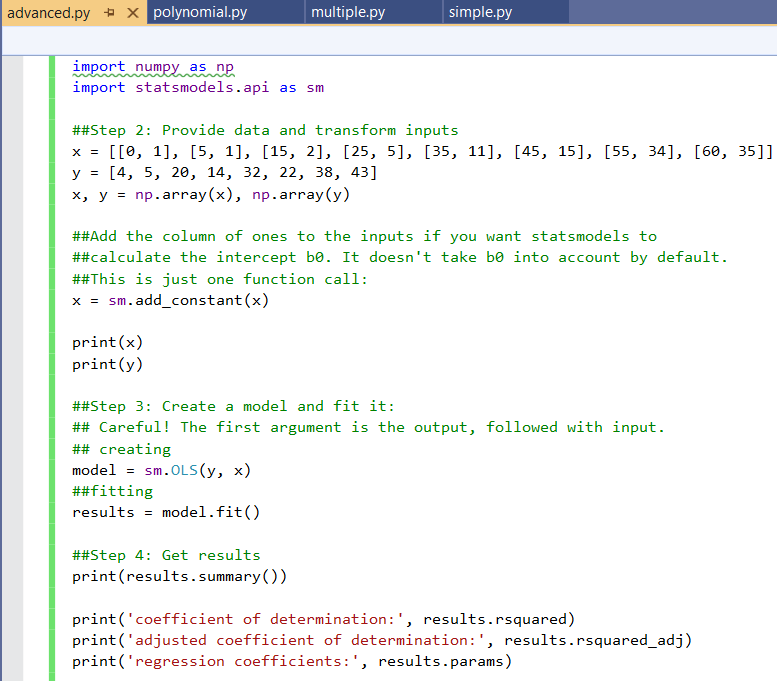
This is the predicted response for known inputs. If you want predictions with new regressors, you can also apply .predict() with new data as the argument:

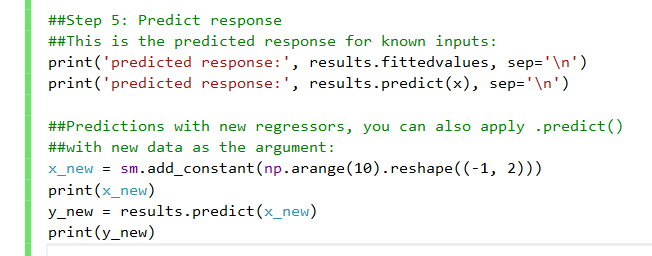


Tulostuu:



Vielä koko koodi:





Tulostus kokonaisuudessaan:

