**Investment Homework I**

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**1.**

We choose Amazon (NASDAQ: AMZN) to do this OLS regression. We scale all the factors by dividing 100. The regression result of coefficients is shown below

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | coef | std err | t | P>|t| | [0.025 | 0.975] |
| const | 0.0009 | 0 | 2.72 | 0.007 | 0 | 0.002 |
| Mkt-RF | 1.1845 | 0.033 | 35.404 | 0 | 1.119 | 1.25 |
| HML | -0.4783 | 0.064 | -7.515 | 0 | -0.603 | -0.354 |
| SMB | -0.0344 | 0.065 | -0.532 | 0.595 | -0.161 | 0.092 |
| RMW | -0.1203 | 0.113 | -1.07 | 0.285 | -0.341 | 0.1 |
| CMA | -1.2389 | 0.123 | -10.075 | 0 | -1.48 | -0.998 |

* The estimated factor-sensitivity coefficients are

**2.**

**# todo zhaoyue**