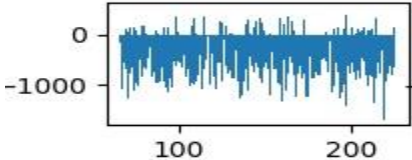
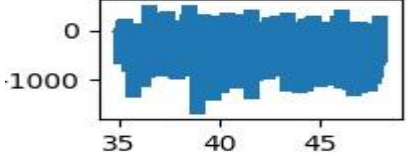
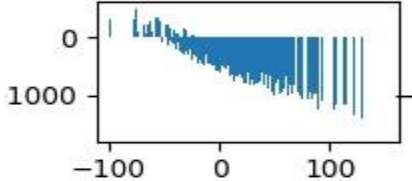
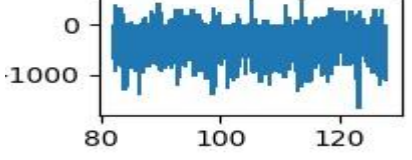


Data Table

Intercept Value	-428.10272532020554
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Mean Square Error Value	982.5444070437417
Root Mean Square Error Value	31.345564391852026

Features	Coefficients	Predicted correlation/ Assignment 1	Charts	Prediction vs fit data
X1	-12.8858388	Lightly (Negative)		It was negative as predicted, but coefficient > 1.
X2	-32.5502172	Lightly (Uncorrelated)		I predicted as uncorrelated Given coefficient is much less than 0.
X3	-307.46783746	Heavily (Negative)		It was negative as predicted, yet the coefficient is much negative
X4	0.46529172	Lightly (Negative)		False prediction as the coefficient is positive. Since the coefficient is 0.46 then it is lightly correlated

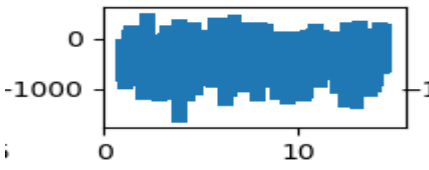
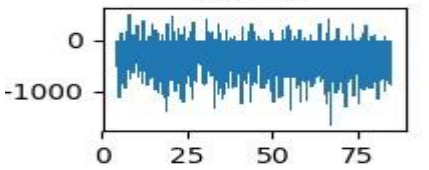
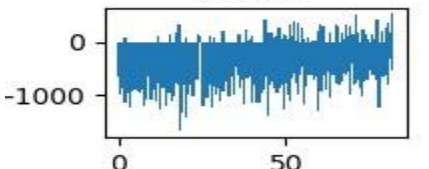
X5	0.94213844	Lightly (Uncorrelated)		I predicted as uncorrelated, it is heavily positive correlated.
X6	-59.65066334	Lightly (Negative)		It was negative as predicted, yet still the coefficient is great than $\text{abs}(0 < x < 1)$
X7	111.60894169	Lightly (Positive)		As predicted it was positive.

Table Key definitions*

- Heavily correlated: correlation coefficient range ($0.5 \leq \text{abs}(\text{coefficient}) \leq 1.00$)
- Lightly correlated: correlation coefficient range ($0 < \text{abs}(\text{coefficient}) < 0.5$)
- Uncorrelated: the correlations coefficient is zero or linear (zero slope)
- Positively correlated: correlation coefficient is positive (coefficient > 0)
- Negatively correlated: the correlation coefficient is negative (coefficient < 0)

Coefficient is m in the linear equation of $f(x) = mx + C$

My thoughts

Some of the prediction to whether it was positive or negative get along with the fit data, but my main concern is that some coefficient are greater than 1 or much less than 0.