Atefeh Moradan	1820892	Kaggle accounts: atefehhh, Parastoo91
Samin Hamidi	1732304	https://www.kaggle.com/atefehhh https://www.kaggle.com/parastoo91
Babak Habibi	1799271	Foundation of Data Science Project Report

	1) NAs removed
	34 columns with NAs. All the NAs were removed. Methods used:
	Mean/Mode Imputation
	Taking other logically related columns into consideration
Data Tidying	2) Outliers removed
	Data visualization to find outliers: box pilots
	Converting categorical variables to numeric
	All turned into dummy
Algorithm	XGBoosting
Score	0.132

Data Tidying	1) NAs removed 34 columns with NAs. All the NAs were removed. Methods used: Mean/Mode Imputation Taking other logically related columns into consideration 2) Outliers removed var X > mean(X) + 3*sd(X) Data visualization to find outliers: box pilots 3) Converting categorical variables to numeric Ordinal instances were label encoded Nominal instances were turn into dummy
Algorithm	Lasso
Score	0.12347

	1) NAs removed
	34 columns with NAs. All the NAs were removed. Methods used:
	Mean/Mode Imputation
	Taking other logically related columns into consideration
	2) Outliers removed
	Data visualization to find outliers: box pilots
	3) Converting categorical variables to numeric
	Ordinal instances were label encoded
	Nominal instances were turn into dummy
Data Tidying	4) Data normalization
	Predictor was normalized
	Those features with skewness higher than 0.5 were fed into BoxCoxTrans function
	5) Feature Engineering
	We added two new features:
	TotalPorchSF (combining and thus consolidating variables which are related regarding porches)
	Age (how old our house is: 2010(year houses were sold)-yearbuilt)
	TotalSF(adds up all the living spaces)
	Variables removed :
	 (due to multicollinearity): 'YearRemodAdd', 'GarageYrblt', 'YearBuilt'
	 (Unbalanced variables): 'utilities', 'street', 'functional', 'electrical', 'saletype'
Algorithm	Lasso
Score	0.11772