**1.** What does the following line of code do?

1 lm = LinearRegression()

* Fit a regression object lm
* Create a linear regression object
* Predict a value

**2.** What steps do the following lines of code perform?

1 Input=[('scale',StandardScaler()),('model',LinearRegression())]

2

3 pipe=Pipeline(Input)

4

5 pipe.fit(Z,y)

6

7 ypipe=pipe.predict(Z)

* Standardize the data, then perform a polynomial transform on the features **Z**
* Find the correlation between **Z** and **y**
* Standardize the data, then perform a prediction using a linear regression model using the features **Z** and targets **y**

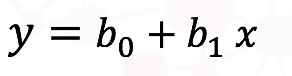
**3.** We create a polynomial feature as follows "**PolynomialFeatures(degree=2)**"; what is the order of the polynomial?

* 0
* 1
* 2

**4.** What value of **R^2** (coefficient of determination) indicates your model performs best?

* -1
* 1
* 0

**5.** Consider the following equation:



The variable **y** is what?

* The predictor or independent variable
* The intercept
* The target or dependent variable