GETTING STARTED WITH ML

Q1)What is a model?
Ans: A model is an entity that helps us to predict the unknown by inputting some data. For eg: calculator is a model where we give some data and tell it to perform mathematical operation.

Q2)What are different names for model in sckit-learn library?
Ans: KNeighborsClassifier and LogisticRegression.

Q3)Which modules give these models in scikit-learn?
Ans: As we discussed earlier that the scikit-learn works as importing a function from various modules present in the library. So the modules which provide us the functions KNeighborsClassifier and LogisticRegression are sklearn.neighbors and sklearn.linear_model respectively.

Q4)Steps to build a successful model?
Ans:
Step1 - import necessary function from appropriate library
Step2 - Make instance of that function. This instance is also called as estimator.
Step3 - Train that instance using fit() method so that it can predict for future. This involvement of training aspect is what makes this type of learning as supervised learning.
Step4 - Apply predict() method to predict the data

Q5)What are the pre-requirements to use a scikit-learn pattern to train a model?
Ans:
1)Features and response should be separate objects.
2)Features and response should be numeric.
3)Features and response should be NumPy arrays.
4)Features and response should have specific shapes.