1.What is machine learning ?

the field of study that gives computers the ability to learn without being explicitly programmed

2. What is supervised learning ?

Supervised machine learning or more commonly, supervised learning, refers to algorithms that learn x to y or input to output mappings. The key characteristic of supervised learning is that you give your learning algorithm examples to learn from. That includes the right answers, whereby right answer, I mean, the correct label y for a given input x, and is by seeing correct pairs of input x and desired output label y that the learning algorithm eventually learns to take just the input alone without the output label and gives a reasonably accurate prediction or guess of the output

3. regression maybe a straight line , curve or other funtions

One of the things you see later in this class is how you can decide whether to fit a straight line, a curve, or another function that is even more complex to the data

4. learning algrothrim = perceptron

5.supervised learning : regression , classification.

6. classification : class = catergories

7. It turns out that in classification problems you can also have more than two

possible output categories