**CROP AND FERTILIZER RECOMENDATION SYSTEM**

**Week 1 assignment**

**1.what is machine learning?**

**->In ml we are going to give data as an input based on this data machine will learn and gain experience and predict and output for the given test case.**

**There is no human intervention, machine can learn itself based on experiences and the given datasets.**

**2.What is supervised learning?**

**->This is a learning method where there will be a teacher who gives input and output to the machine and train it. Machine will learn under the supervisation . Finally in the testing phase when the question is given it will predict the answer and gives the output.**

**Supervised learning works on labelled data.**

**3.What is regression?**

**->It is basically predicting the continuous values, it gives numbers as the output.**

**Predicting the price of car, house, and others come under prediction.**

**There are different kind of regression models:**

**1.Linear regression: gives Stright line as output.**

**2.polynomial regression: handle complex curves.**

**4.What is classification?**

**->It works on the categorical data.**

**Here the target attribute is not a number. It is used to classify the given data based on the target attribute and when the test instance come it will be classified into any one of the groups.**

**It is used to make decision like he is eligible or not, positive or negative etc.**