Project background:

The world population is exploding. Providing the basic need has become a challenge. The basic requirement for any person is healthy food. But due to the increasing population, the old farming methods are proving insufficient for providing food in large scale. However, by using the latest technologies we can increase efficiency and productivity. For the purpose of increasing the efficiency and productivity of agricultural crops, an IOT based smart agriculture monitoring project is proposed.

Project Scope:

The purpose and scope of project is **developing Smart Agriculture System based on IoT** can monitor soil moisture and climatic conditions to grow and yield a good crop. Farmer is provided a mobile app using which he can monitor the temperature, humidity and soil moisture parameters along with weather forecasting details. Based on all the parameters he can water his crop by controlling the motors using the mobile application. Even if the farmer is not present near his crop he can water his crop by controlling the motors using the mobile application from anywhere.

Project schedule:

To complete this project we are given approximately four weeks of time.
My aim is to complete the tasks in:

- Project planning and kick off; explore the IBM cloud platform; connect the IOT simulator to Watson IOT platform in 1st week.

- Configure the node red to get the data from IBM IOT platform and open weather API in 2nd week.

- Building a web app in 3rd week.

- Configure your device to receive the data from web application and control your motors and also complete final report in 4th week.