

# Report

By : *Shivam Pandey*

For: *Sparks Foundation Grip Internship*

## TASK – II

### Introduction

Our Aim in this Task is to classify given data into most Optimal Clusters  
We needed to find the value of the most optimal one, and plot it on graph .

### Data

Link : <https://drive.google.com/file/d/11Iq7YvbWZbt8VXjfm06brx66b10YiwK-/view?usp=sharing>

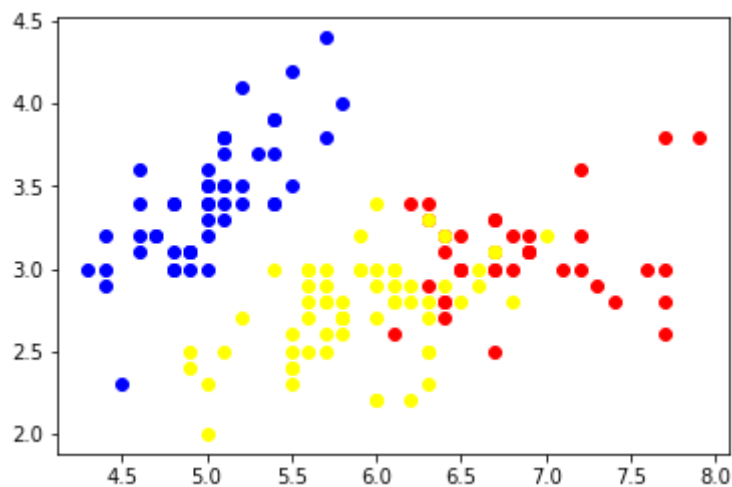
This Data Contained several columns representing height and width of flower along with its Species.

### Method Used

I Clustered this using KMean algorithms , First Plotted graph on cluster\_no vs Error.  
Pick one with sharpest turn , which is at K=3 .

### Analysis Section

Afterwards i classified given data based on Cluster numbers .  
And plotted them based with color sepearating them on basis of Cluster and Species of flower.



## **Results**

Most Optimal way to classify them is in 3 parts

## **Conclusion**

So finally we concluded that its most optimal to classify our data into two groups using Kmeans Clustering.

## **Appendix**