**ADS Assignment 1**

**Group 2**

**Multilinear Regression**

**Flow chart:**

**Design of Regression Model:**

Regression models describe the relationship between a dependent variable, *y*, and independent variable or variables

Steps to design Regression model:

1. divide data into training data and test data :

Training Data: 75%

Use training data for developing multilinear regression model

As the p-value is much less than 0.05, we reject the null hypothesis that *β*= 0. Hence there is a significant relationship between the variables in the linear regression model of the data setfaithful.