**WEEK 1 ASSIGNMENT**

ALY 6020 Predictive Analytics

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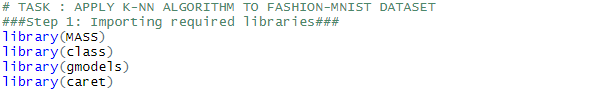
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The simplest way to understand machine learning is KNN algorithm, as it is one of the easiest supervised machine learning algorithms that people usually start learning machine learning from. Supervised machine learning is a process where in laymen language a computer is like a child and when we want the child to behave or act in a certain way we create a situation where the output is controlled or should be anticipated in particular way, for instance when we show a child a picture of apple or real apple we usually want to react in a particular way like this is an apple or wow it is not an apple and say no on other things . this way when we repeat this process multiple times then at a point it comes into mind of a child that yes this is what we are supposed to say when we see it. this is called supervised machine learning.

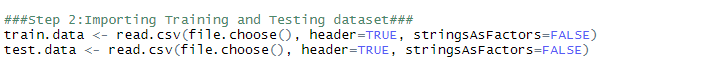
**PREDICTIVE ANALYTICS-KNN**

* Storing the required libraries

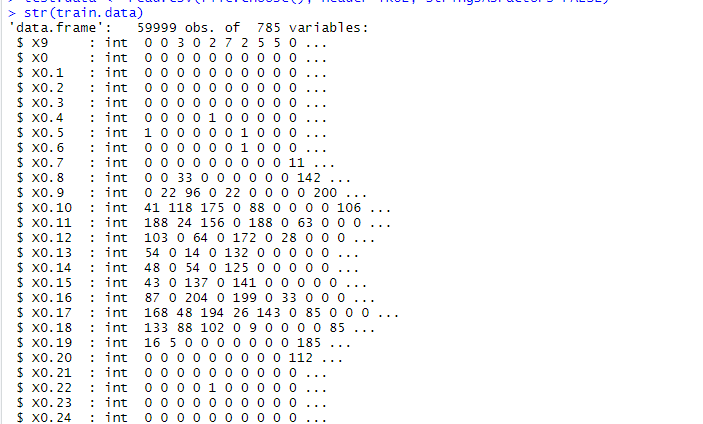
As we all are aware that predictive analytics in any domain irrespective python or R we need special libraries for the following and in this scenario we have used mainly library named “Class” as it is required to perform KNN . and some other libraries as well. The snap of list of libraries is given below.

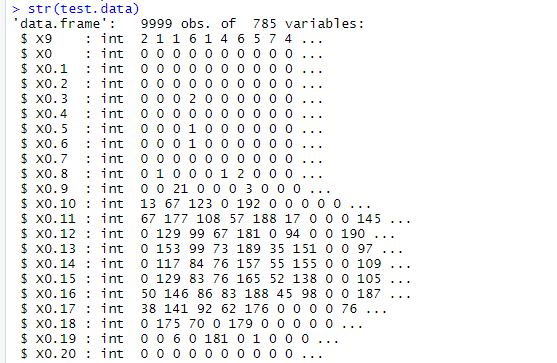


* As for the following KNN we are been provided two datasets and as we know supervised learning works on the process that we train the model with training dataset and then we use the same model on the test dataset. Given two variables below one is used to store the training dataset and the other is used for testing dataset.

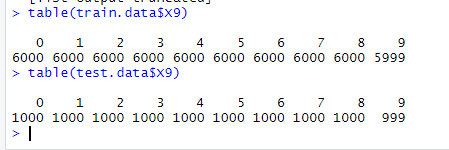


* Next step is to check the organization of the dataset as we see there multiple columns and as we know that an image in the particular dataset is being made with 28 \* 28 pixels and after multiplication its seen that total number of columns found are 786 and a complete row determines an image which has 786 columns in it.



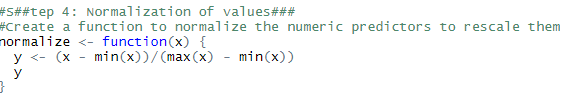


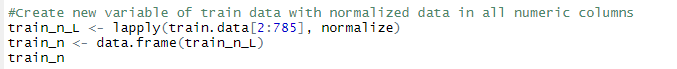
* Next step is to have a look at the column that is our target column for the following training and testing dataset and the received value is the pixel that is used to produce an image.

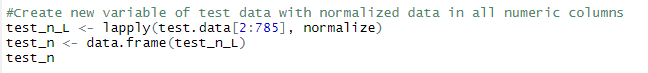


* One important step for any supervised machine learning is to normalize or to get the desired outputs in the range that no outliers or unwanted values a re present and the confusion matrix or the matrix required for prediction can be used in the right manner.

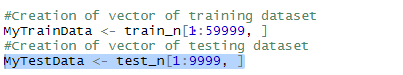
Below code is made for normalizing the values of both training and testing dataset.



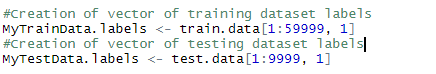




* Creation of vector from the given training and testing dataset and by using the following code we turned the dataset into proper vector and then used the following.



* Creation of vector from one class of the following training dataset and the one class of testing dataset and that class is further used in KNN process to find out what is the KNN value for the following.



* Since data for the following was not able to provide a result for the KNN from the usage of class variable which was being used as labels where first column of the data was being used in the class on the place of it training dataset along with the testing dataset and the third point was taken as the class only to provide the result of the following. We have used all three ways as discussed using different k value we have produced cross matrix for all the following. Below are the snippets for the following task asked where cross matrix have been built for all the value of k and in the form of cross matrix.

![Table

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJlbGlhbmNlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMTAAAJKSAAIAAAADMTAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![Table

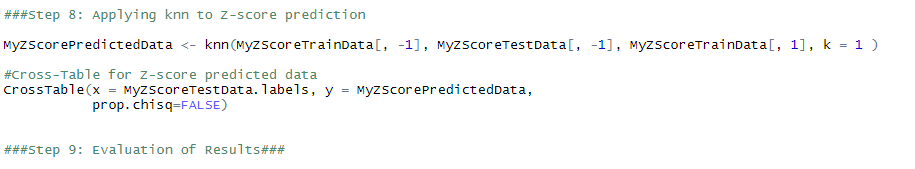
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gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAIbn/Vj61Vq1c/6sfWqtAFi1+9P/wBdP/ZVqlf/APIx6R9J/wD0EVdtfvT/APXT/wBlWorpLU6tYtNIy3CiTyUA4bgbs8dh7ikwLtFFFMAooooAKKKKACiiigAooooAK878Q6xqWgeLdY1OS8lbQxaRW1zGWOLJ2VylwvPyjcdrn0KsSApr0Sql5b2AtLyS+gtzBLERdGVAVkjCnIfPUYzwe2amSbRUdx+nMz6Xau7FmaFCSTkk7RWZ4hY3z22hREg35JuCDytsuPM/76yqevz57Vr27xyWsTwKUiZAUUoUIGOBtIBH0I4qGHT4odTub/c7z3CohLEYRFzhV9BlmPrk/QDST965nH4bFoDAwOlcRbW0firxbr9tq+o6lDJpk8cVtY2eoT2YSFo1YSnymUyb2LjLEgbMDBDZ7esLUdL8L+JtWkstY0rTtUvdPjRit5ZLKYVkzjBdSOdh6HtzUre5XSxia3qWqy6xr4ttck0mHQbGO5jiSKFluCyuxeUyKx8vKbfkKH5X+boRNrl3LqGm+Dry4hMEtxqdrK8R6xs0Tkr+GcVb1yTwnJ4j0yz1/SY7i/DqthPcaQ8scbnkBJzGURvkzjcDwPauimtoLkxG4gjlMLiSMugbY46MM9Dyefeku/mvwd39+noD7eT/ABVl934ktcZ4w0K3n1jSLj7bq8D3uopBOttrF3BGyeU5wESQKvKg5AB/M12dRy28M7RmeGOQxP5kZdQdjYI3DPQ4JGfehrVeq/Md9GcXdNf/APCQXujafrl5pFpo2mQ3UbZS4kuS7SgmWS4V2ZV8oDghuWyemMu3k13xH4i8LXp8Q6xoy6tokt5LZWq2/lwyAW/ygSRNn75OX3EdioJB7zU/D+ja3JBJrOk2OoPbEtA13bJKYicZKlgcdB09BS6toWka9AkGu6VZalFG29I7y3SZVbGMgMDg471Sdtf66/5/gHX+vL/L8TjfiR4h1DS7a8XQL7WBf6dpr3ssdjFZmFF+bY85uBkglG+WI7sBuOlafi+Zrjw/oUz4DSatp7nHTJmQ1u3nh/RtRuLa41DSLC6mtBi2kntkdof9wkZXoOlZ97qHhvQpNO0O5sTbwmSJbOOPS5Wto5C+IwHWMxo27oCQRwaUdGvVfg7/AIky1i7dn+R0NZWtf8fOkf8AX+v/AKLkrVqlqCWrzWJupGRluQYQo+8+xuDx0xu9OlJ9PVfmPo/R/kXaKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAENz/AKsfWqtWrn/Vj61VoAsWv3p/+un/ALKtUr//AJGPSPpP/wCgirtr96f/AK6f+yrUV09qNWsVmjZrhhJ5Lg8LwN2ee49jSYF2iiimAUUUUAFFFFABRRRQAV5j4n+1aNr/AIn8RW7yy2QtUtdStlG7EXkZSZQOcozHOOqMx6qK9OoqZR5v6+Q4uzIbT/jyg/65r/KsnW/+JpqFroa8xSf6Re/9cVPCH/fbAx3VXrcqCKyt4Lu4uo48T3G3zXJJLBRhRz0A54HGST1Jq763IStHlJ64Pxj4R8N33izw3c3vh/Srie81N0uZZrKN2nUWk5AclcsAVU8/3R6V3lFC0dy77nkfxP1WPR45tM8Pr/Zt9p2mebZKmtTWCnG4qtvaxgrcFdh3KwCgbRnBOGeItV0ptf8AEWof29cQTTaVZyaSLC9aP7ZPtmMYj2EeeSSuI/mU5GVNev0Ut1YXVM5PxOZzD4UN2ALg6tb+aF6BvLfOPxrlfiJqmpweMJrSbVLPSLMacj6bc3uvy6XH9oLOHb5I2WdlxFmNzgAjg7jXq1FHf1v+CX6DWn3W/G5DZO8lhbvNJHJI0SlniOUY45Kn09K47xr4T8O6hrWiXd/oGl3Vzc6mkc809nG7yqIZMKzEZYfKOD6D0rt6KJau/mn+Io6K3lY83119I0rxJNpur6m3h7S7XTYjosFpfNYRSSlpPMCiNlErDEQ8shgARx8xrMvbW0Gt+E9b8f6hdaPNd6NKL6V9ZnsYkusW58sbZVWMnDkouN20kg7cj1uimnbX+uv+f4IOv9eX+X5nlvxU1sQhrHTZpYdRXTXuLOY6/PYCVjkIsMceftUgK5KMMcqM/NW94jvotT8J+Hb23uI7qOfVNPcTROGV8zLyCODz6V2lFKOjT80/udwl7yt5NferBWVrX/HzpH/X+v8A6LkrVqlqD2qTWIuo2dmuQISp+6+xuTz0xu9etJ9PVfmHR+j/ACLtFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCG5/1Y+tVatXP+rH1qrQBYtfvT/9dP8A2VapX/8AyMekfSf/ANBFXbX70/8A10/9lWpmijeRJGjVnTOxivK564PahgZd9beIpNSV9N1TTLexG3dDcabJLKf72JBOoGe3yHHvRfW3iKTUlfTdU0y3sRt3Q3GmySyn+9iQTqBnt8hx71rUUAZN9beIpNSV9N1TTLexG3dDcabJLKf72JBOoGe3yHHvRqVt4ilvlbR9U0u1tQo3RXWmSTuTnkh1nQAYxxtOPU1rUUAZOpW3iKW+RtI1XS7W1CjdFdaZJO5OeSHWdABjHG049TRqVt4ilvkbSNV0u1tQo3RXWmSTuTnkh1nQAYxxtOPU1rUUAZOpW3iKW+RtI1XS7W1CjdFdaZJO5OeSHWdABjHG049TRqVt4ilvkbSNV0u1tQo3RXWmSTuTnkh1nQAYxxtOPU1rUUAZOpW3iKW+RtI1XS7W1CjdFdaZJO5OeSHWdABjHG049TRqVt4ilvkbSNV0u1tQo3RXWmSTuTnkh1nQAYxxtOPU1rUUAZOpW3iKW+RtI1XS7W1CjdFdaZJO5OeSHWdABjHG049TRqlt4imulbRdV0u0twgDR3emSXDls8kMs8YAxjjB+ta1FAGRqlt4jlukbRdV0u0gCAMl3pklwxbPJDLPGAMY4wfrRqlt4jlukbRdV0u0gCAMl3pklwxbPJDLPGAMY4wfrWvRQBkapbeI5bpG0XVdLtIAgDJd6ZJcMWzyQyzxgDGOMH60apbeI5bpG0XVdLtIAgDJd6ZJcMWzyQyzxgDGOMH61r0UAZGqW3iOW6RtF1XS7SAIAyXemSXDFs8kMs8YAxjjB+tGqW3iOW6RtF1XS7SAIAyXemSXDFs8kMs8YAxjjB+ta9FAGRqlt4jlukbRdV0u0gCAMl3pklwxbPJDLPGAMY4wfrTtVt/EM00Z0PVNMs4wuJFvNNkuCzeoKzx4Htg/WtWigDJ1S28RSyRHRdU0u0QJiUXemyXBZvUFZ02j2IP1o1S28RSyRHRdU0u0QJiUXemyXBZvUFZ02j2IP1rWooAydUtvEUskR0XVNLtECYlF3pslwWb1BWdNo9iD9aNUtvEUskR0XVNLtECYlF3pslwWb1BWdNo9iD9a1qKAMnVLbxFLJEdF1TS7RAmJRd6bJcFm9QVnTaPYg/WjWNwm0feQW+3LkgYBPlydq1qa8UcpQyRq5jbchZc7TjGR6Hk/nS/zDo/QdRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAhuf9WPrVWrVz/qx9aq0AWLX70//XT/ANlWrFV7X70//XT/ANlWrFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAQ3P+rH1qrVq5/1Y+tVaALFr96f/rp/7KtWKr2v3p/+un/sq1zuqa94osvEFvp1poOkTx3bSfZ5pdYljJVACS6i2baeegLfWhuwHVUVzN942h06e5S40y8mh09FOp3lqY3gsiVDkNuZZHwpDHYh4I4zxUX/AAml4fGs+gReFdSmjigin+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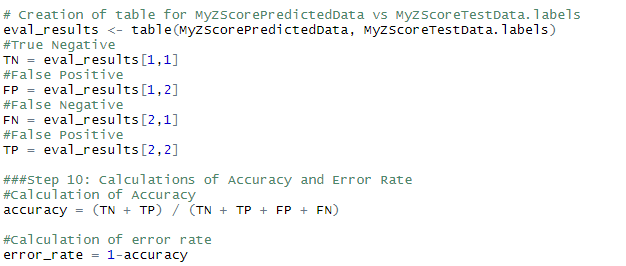
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As we can see the difference in the value of the following cross matrix it is clearly visible in some columns where value of 5.356 for the k kept on 21 whereas where k is kept on 11 the value of 3rd column is 1.512 similarly the value coming in k as 11 5th column is 14.413 whereas where value of k is kept as 21 where value of the 3rd column is 13.714.

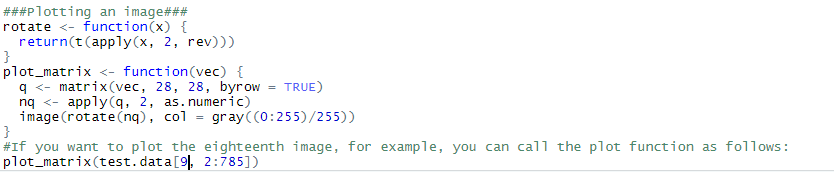
* Z- score prediction have been kept under consideration and while using the value of K as 1 prediction have been kept for the following. z- score tells us about the position of given raw score about the distance it has departing from mean. when the following has been measured in standard deviation unit. If the value of z score comes positive, it means above the value lie above mean and if negative then it lies below mean.



* Further to test the model as every machine learning model is kept under some test and the following test was the accuracy test and the error test. Formula for the following has been made by some handly inputs like creating a true positive, true negative, false positive and false negative values. and the error is found by subtracting the value from 1. While the accuracy was close to 71 % hence the error came out to be 0.29.



* To find if the test data created can produce the same results as the training data was creating, we need to check the values from the following test dataset and if they produce the right results.



REFERENCES:

* *I am getting the error “Error in knn(train = prc\_train, test = prc\_test, cl = prc\_train\_labels, : no missing values are allowed.”* (2020, April 9). Intellipaat Community. <https://intellipaat.com/community/46359/i-am-getting-the-error-error-in-knn-train-prctrain-test-prctest-cl-prctrainlabels-no-missing-values-are-allowed>
* Mcleod, S. (2019, May 17). *Z-Score: Definition, Calculation and Interpretation*. Https://Www.Simplypsychology. https://www.simplypsychology.org/z-score.htm