Maninder Singh

06013202717

CSE- 1

PYTHON

LAB PROGRAM

Submission -2

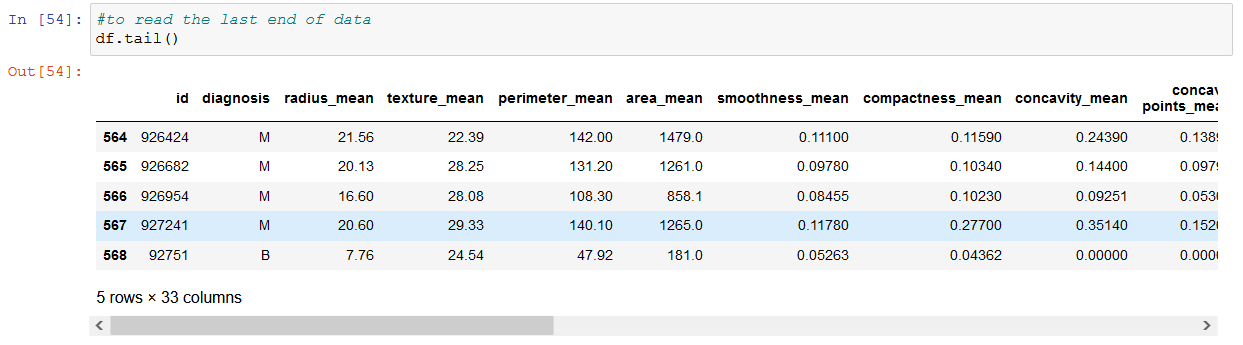
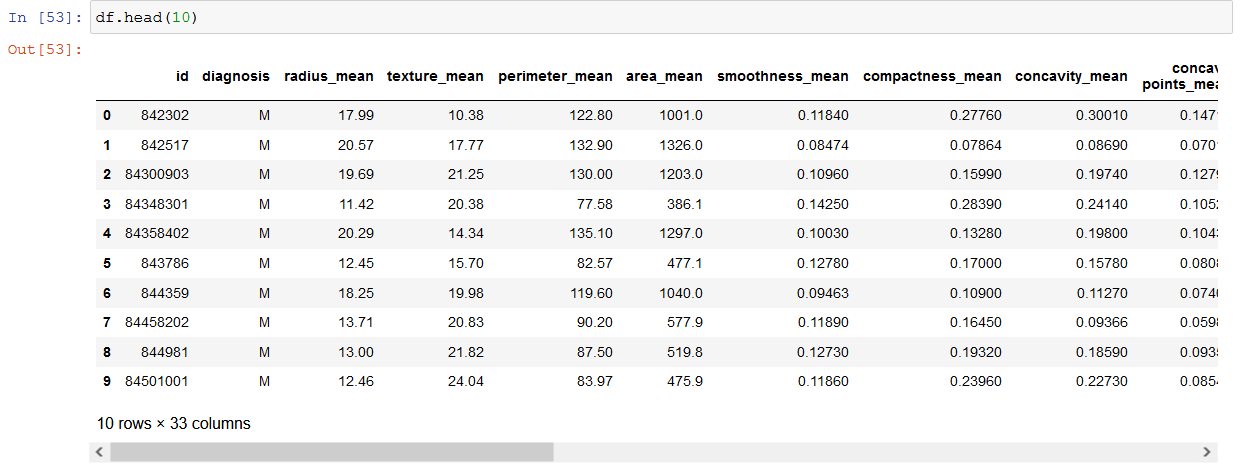
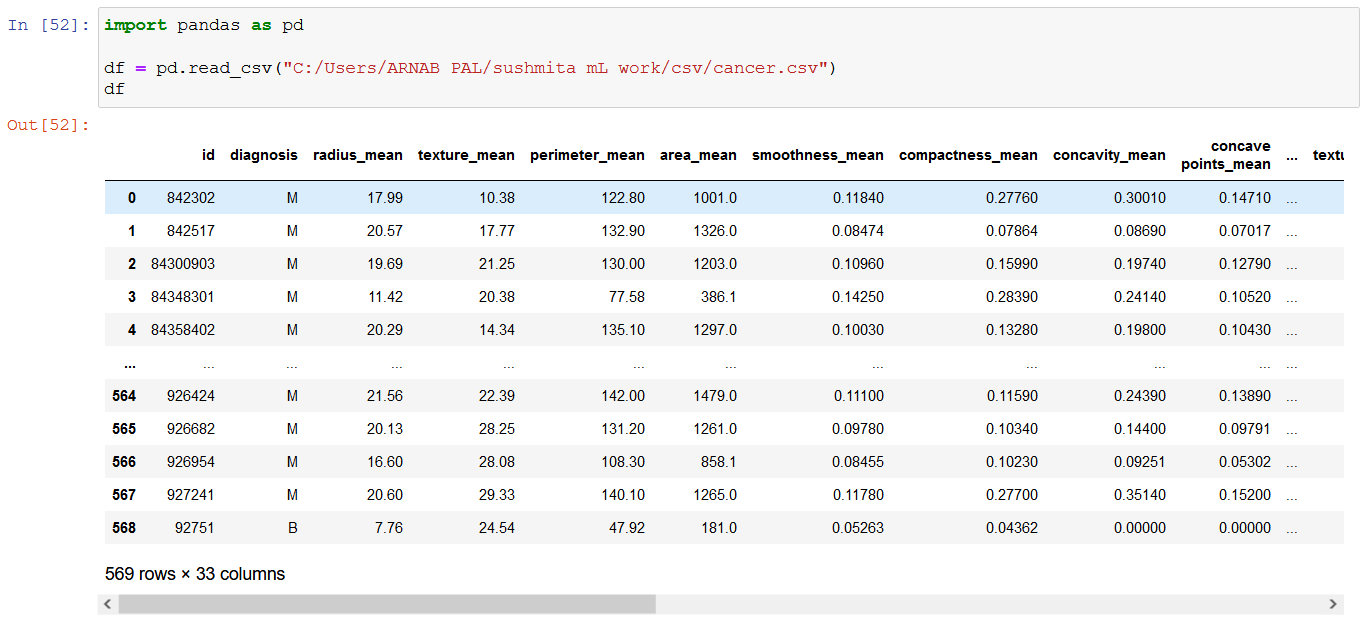
Github link : [LAB Program - 2](https://github.com/Jagrajsinghji/ML_Python/tree/master/Experiment_2)

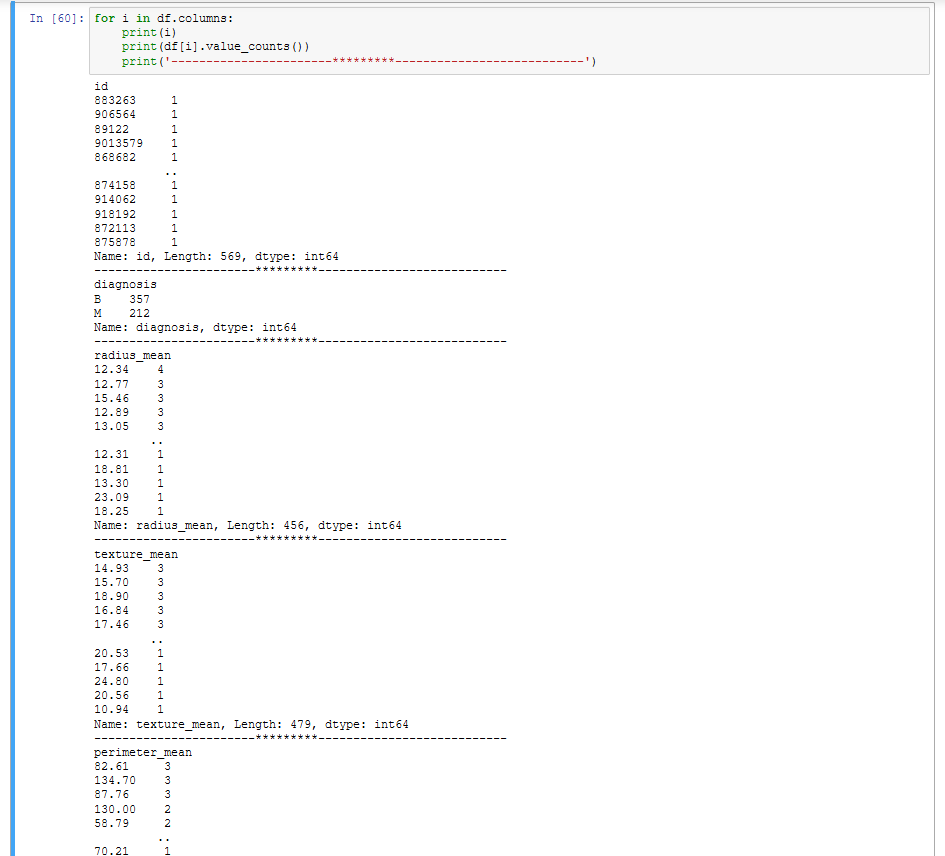
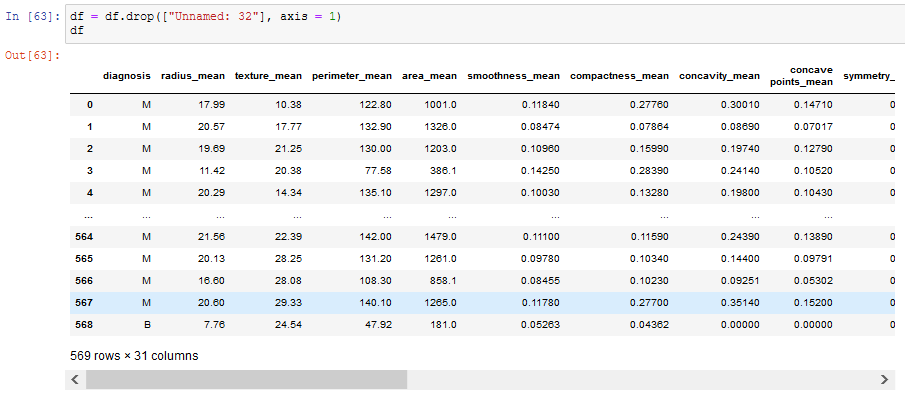
**PROBLEM STATEMENT** - Implementation of decision tree on a breast cancer dataset using sklearn in python.

**Program Code Snippet**

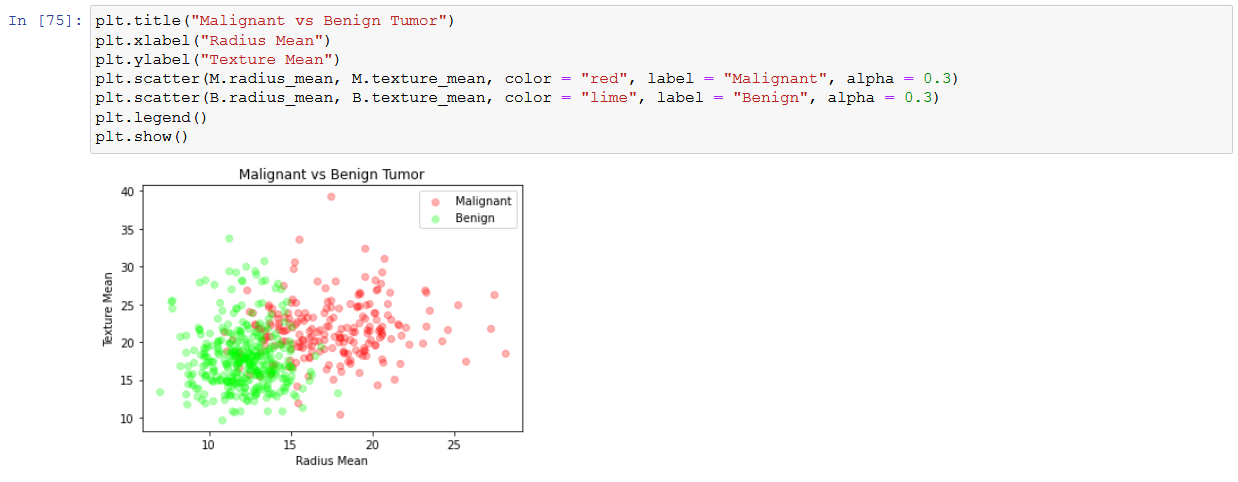
**Loading Dataset**





**Preprocessing/Cleaning of dataset** 

**Visualization**



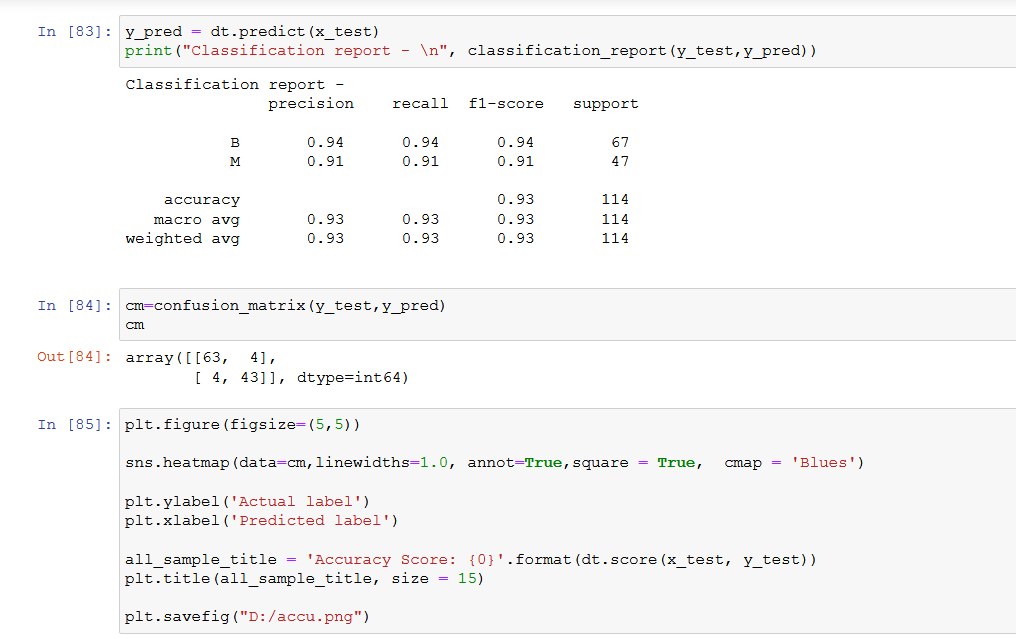
**ML algorithm implementation of prediction or comparison**

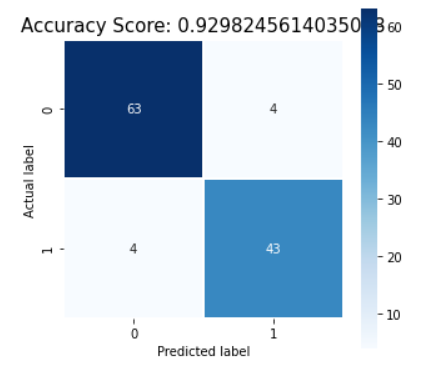
Decision tree models where the target variable uses a discrete set of values are classified as Classification Trees. In these trees, each node, or leaf, represent class labels while the branches represent conjunctions of features leading to class labels.

A decision tree where the target variable takes a continuous value, usually numbers, are called Regression Trees. The two types are commonly referred to together at CART (Classification and Regression Tree).



**ROC/AUC/Confusion matrix**





**Final graph![A screen shot of a computer

Description automatically generated with medium confidence](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAACJ4AAAfaCAYAAAAoKCTKAACAAElEQVR4XuzdZ7RW1b0v4B2T64mJ0Wgs0Rxb7GLvEhELKog0UQGpotKLSJGiSO9Kkd5xb5qighXpCoLmJMfEezR2Y8WosZ477rf7v3Ot7d4H3h1PTgigG55njN/Y71pzvXOtxcvH35izqAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2PXtk3K47NT8tAgAAAAAAAAAoBLbY8899uh5edXT/s+N9S//urXslLSqd9nXF5510hd777VXg8IfBAAAAAAAAACgsjjq5gZXfPqfz98fsnPz1aZFcciB+/3f9Bv8pPBHAQAAAAAAAAD43tt7zz1PHNqp+X8WliJk5+T0E478Mv0MBxb+LgAAAAAAAAAA33t7773nScM6t9gpxZNn5g6Pr59bHNPv6lhh7LvIx08XVzhXmCcm3xW3t24YQ7s0izUzh5SfXzd7aMwd0jWGd2kRJcNuiw9Xz412110ZC0f2iD8tm5xfc9wRh8aCEd3j+QVj4rMNC+LhcX2jeFi32HfvveLPy2fk15xxwlGKJwAAAAAAAABA5bRl8eTVR6fErc3qRr9brouXl06K0be1ih4tG0Sz2hfnY51vuDofa1Hnknjryenx0Li+0emG2tGvzfXx5hPTY0LvW/LPo7q1jNcfmxZDOjXNyxU3N6gR//uhe6NRzWqxdHzfqHH+qfm1tS48M955alZsKhkdS8b23qrwsWLawOiS7tfu+lrRvUX96N+2cfS68Zr44tkFMbJbq7izbaNoneb9aO28uLdPm7gj3XdY1+bx6fqSuLzq6TE43bvWhWflz1U255ebFsXvFt0T0/p3yJ9z/oju+fmS4bdF8TdZPLpnfPJMSfl36l96XnrGmem+C9N7tdrqGbNkZZqBHZp8UzypGfeP6RWffvP9Y484NJ97y2dYO2todGx8Vfmx4gkAAAAAAAAAUGltWTyZMaBT/Pv94/JCRLZCR7fm9fLPG+4bEfOG3Bq9Wl8Tbz05Iy9XzBnUJWqcf1q+gkl2TVbM6N6iXl7UuPDMk/KSR1b8+LeFd8el556SX5MVT75K54d1aZ4fb7xvVIztdXNcc9kF8eenZm5V6MiKJ1neWTErLjjt+PxcVi7ZvGZeVDuzSjS8vGrUrnZW/H7xPdGzVYNocFl23xPz4knDGlXz6yf2bRurZgwqn3PkrS2jxnmnxe8W3pPeb375+d8vHhu/X3RPnhceGJe/S9lYzQvPyMst2bnhXVts9YwvPTwx3euC+Hhdcf6+f10/PzYWj4prv7n/e+nZP1g9Z6uiSVZSya4rO1Y8AQAAAAAAAAAqrS2LJ8/MGR5zBneNLzcuzFfwuPbyqvHhmnnRoXGtWDl9UPS+qWG8vXxGPHD37TFrYOfo0KhWPDbxzrxA8cclE/LrP9+wIC4+++T83FPTBsbZVY4u33qmrHhSthJKVlrJSiJ9brmuvMBSlqx0kq0O8t7K2X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