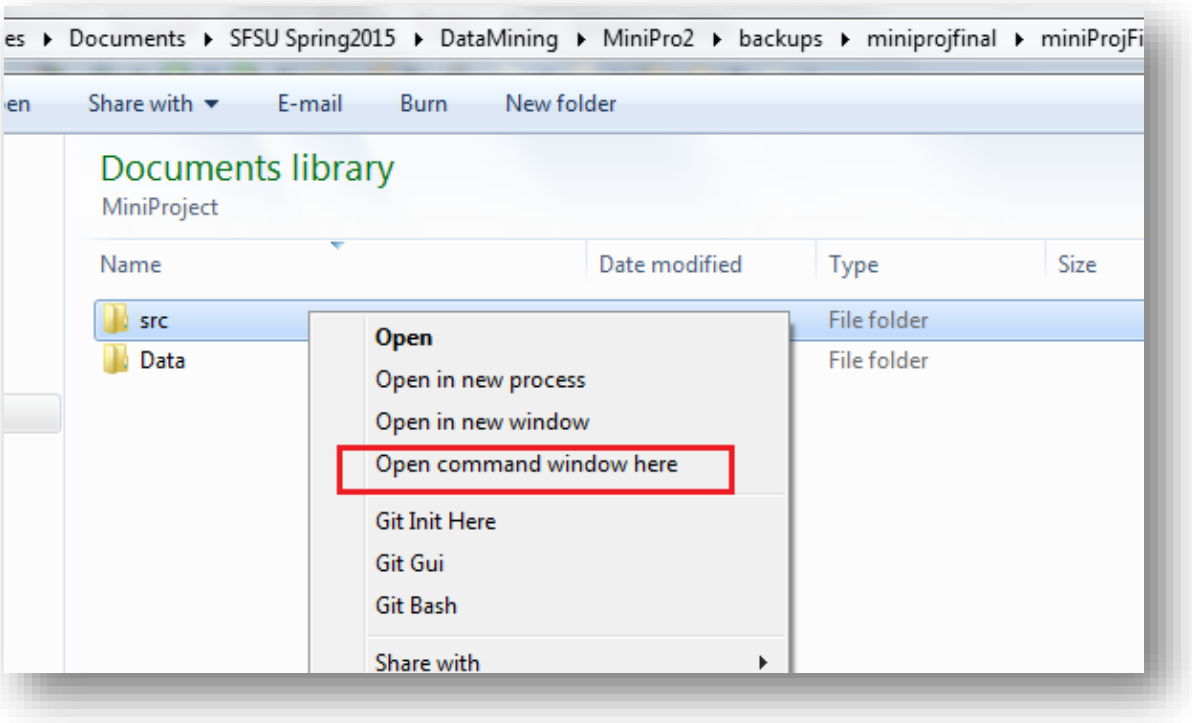
How to run the project and read output

Prerequisites:

- Numpy and Scipy library: http://www.scipy.org/scipylib/download.html
- Pandas library : http://pandas.pydata.org/pandas-docs/version/0.15.2/install.html

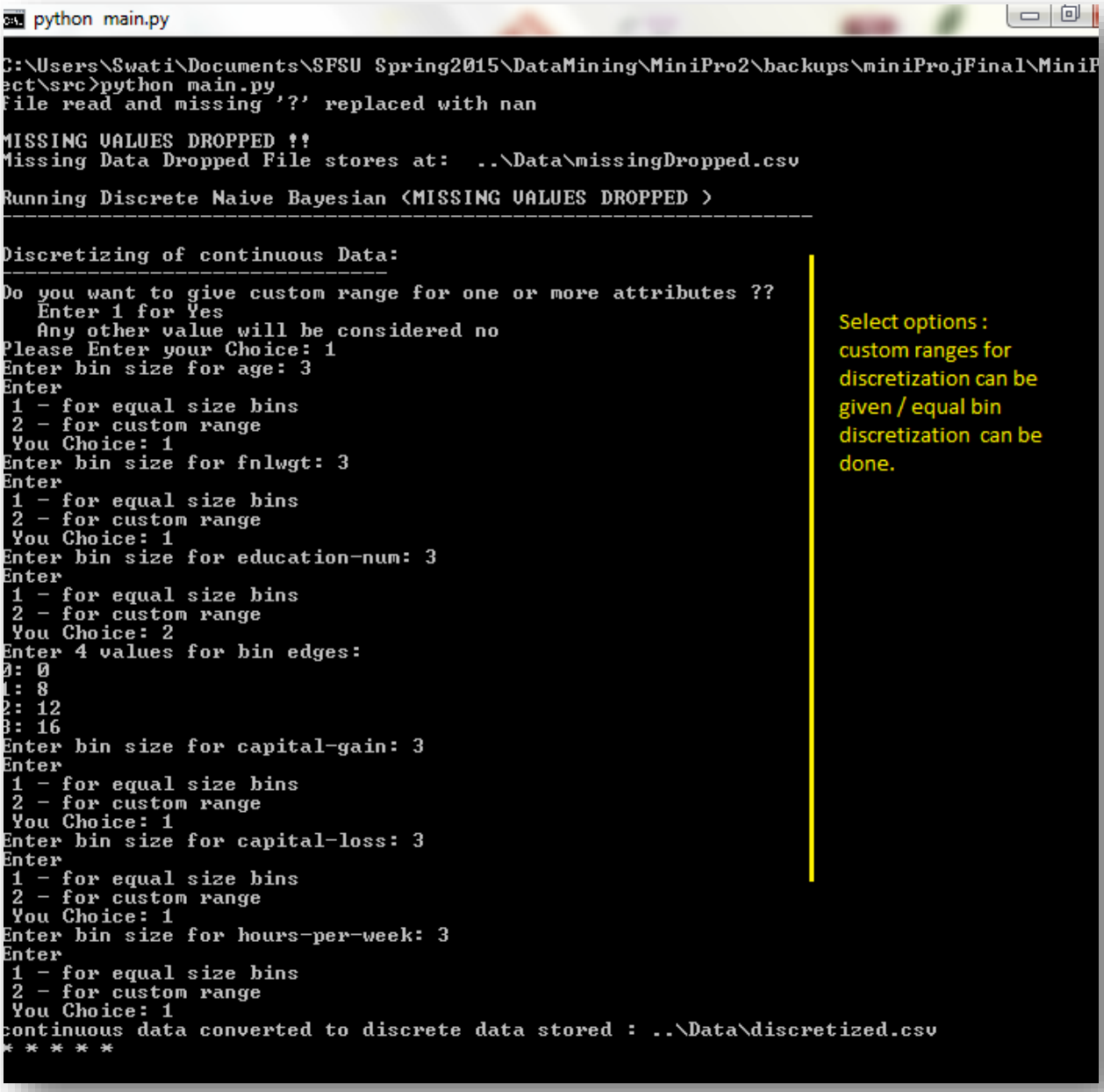
Step 1: Download the zip file and unzip the folder and open the command prompt in the src folder.



Step 2: run with command : python main.py

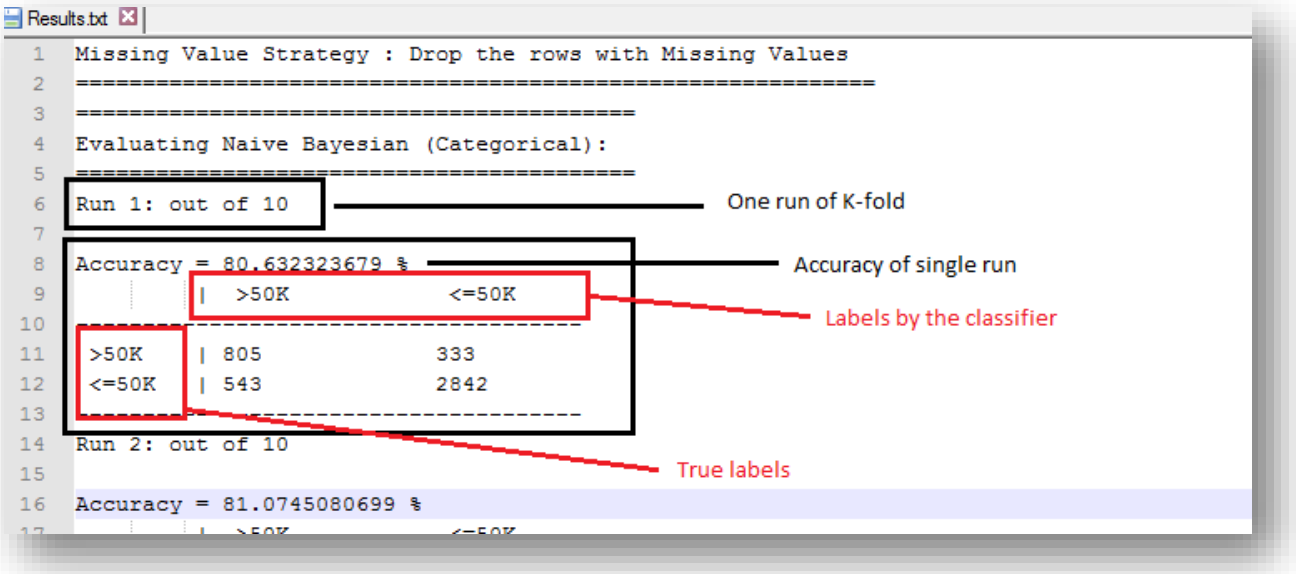
Program will ask for inputs for data discretization step . As shown below:

As the kfold evaluation progresses visual cues "*" will indicate the progress.



Step 3: Check Output in the Data Folder

- Result.txt : Stores the result of the single run of K fold as confusion matrix explained in figure below:



Scroll down to find the average accuracy and standard deviation of 10 fold run:

```
================================================================================
ACCURACY OF 10 FOLD EVALUATION IS:
 mean : 81.1065522594
Standard Dev: 0.475812491636
Standard Error: (0.150465121273+0j)
================================================================================
```

- SummaryResult.txt : Stores the Summary Result of all four Evaluation , 2 different missing value handling * 2 different Naïve Bayesian implementation:

```
Missing Value Strategy : Drop the rows with Missing Values
============================================================
========================================================================
ACCURACY OF 10 FOLD EVALUATION OF NB (Categorical) IS:
 mean : 81.106552
Standard Dev: 0.475812491636
========================================================================
========================================================================
ACCURACY OF 10 FOLD EVALUATION OF NB (Guassian) IS:
 mean : 82.581492
Standard Dev: 0.330823260493
========================================================================
Missing Value Strategy : Replace continuous Variable with mean/median and categorical with mode
============================================================================================================
========================================================================
ACCURACY OF 10 FOLD EVALUATION OF NB (Categorical) IS:
 mean : 81.657190
Standard Dev: 0.539777208095
========================================================================
========================================================================
ACCURACY OF 10 FOLD EVALUATION OF NB (Guassian) IS:
 mean : 83.262360
Standard Dev: 0.332714907574
========================================================================
```