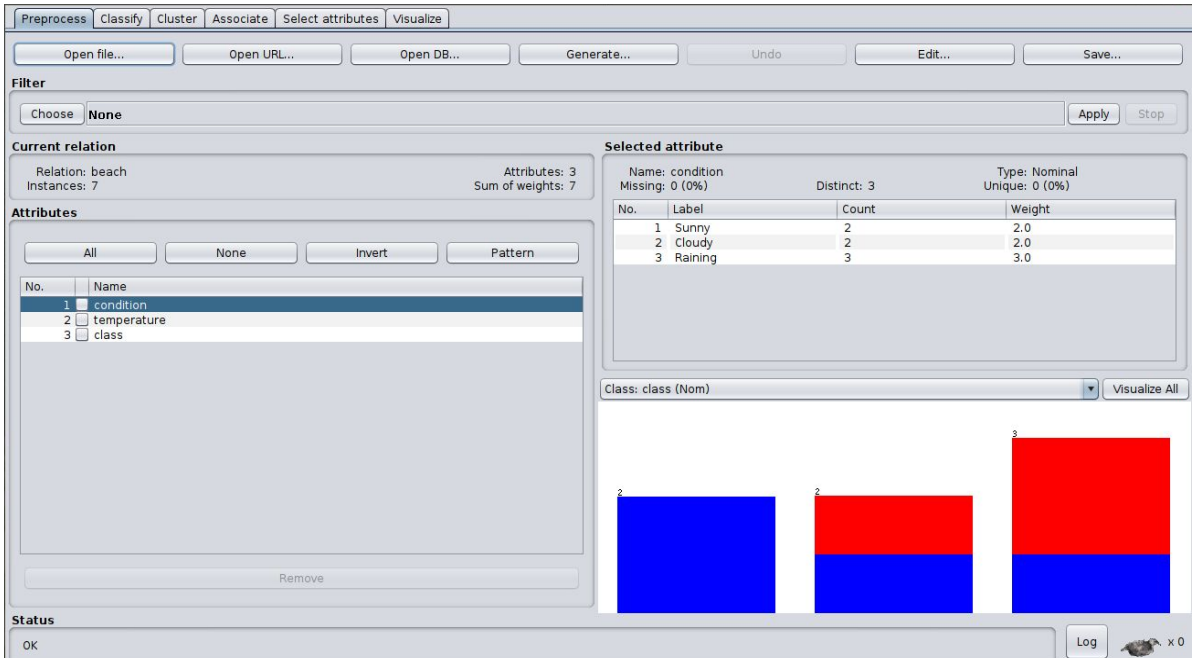
Steps to create ARFF file

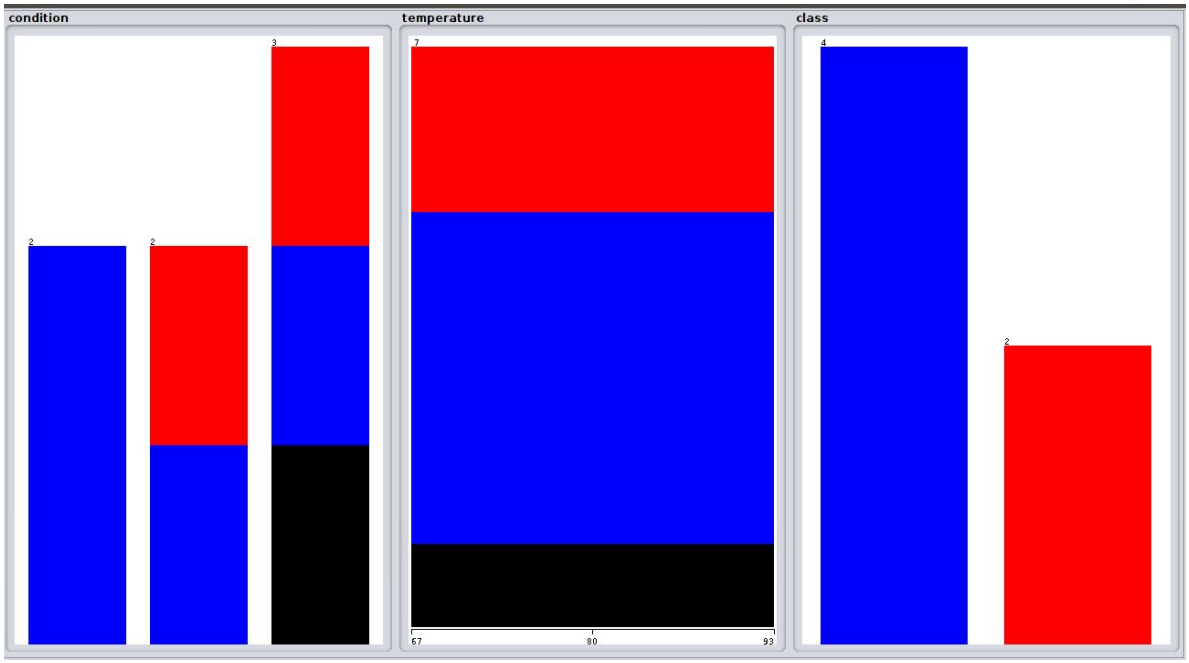
- Open text editor (Ubuntu)
- Enter relations, attribute details, data
- Save with extension .arff

```
@relation beach

@attribute condition {Sunny, Cloudy, Raining}
@attribute temperature numeric
@attribute class {Yes, No}

@data
Sunny 85 Yes
Cloudy 75 Yes
Sunny 75 Yes
Raining 93 Yes
Cloudy 67 No
Raining 72 No
Raining 93 No
```

- ❏ Relations are declared as @relation along with relation name
- ❏ Attributes are declared as @attribute along with name and data type
- ❏ Data is declared as @data
- ❏ In this relation there are 3 attributes namely, condition, temperature and class
- ❏ If the data format is violated, an error unparsabledata occurs.



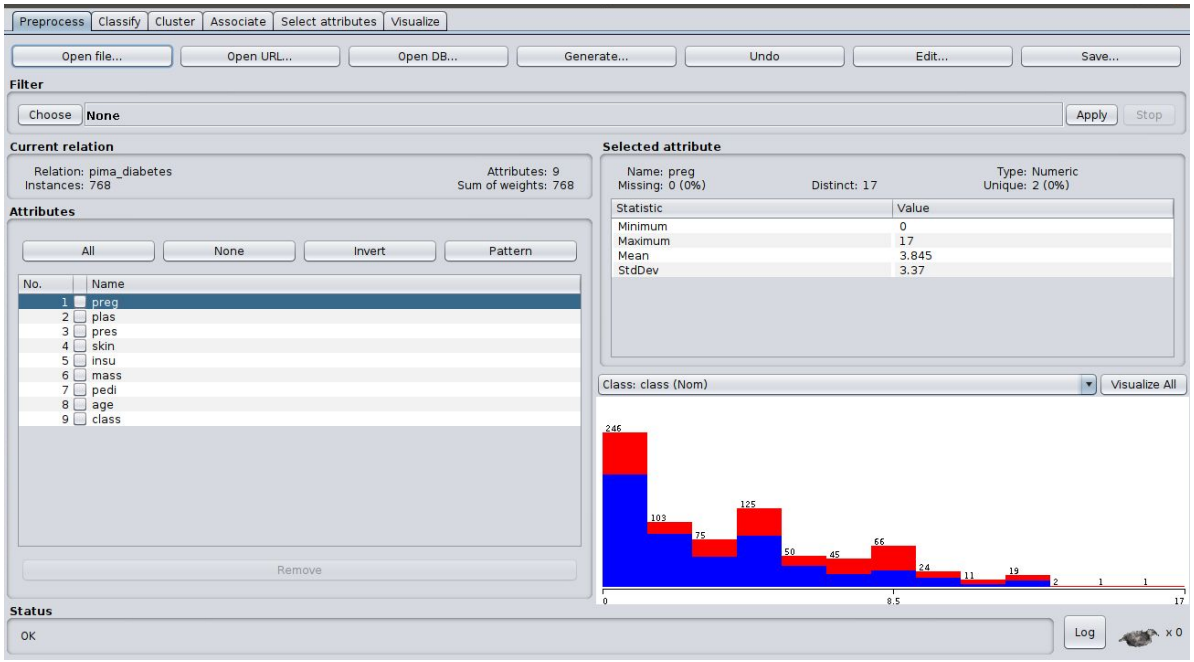
- Open arff file in weka. (Explorer -> open files -> go to the location where arff file is saved -> open)
- Observations :
    - Number of instances = 7
    - Number of attributes = 3
    - Attributes :
        - Condition
        - Temperature
        - class
    - Missing values = 0 for all the attributes



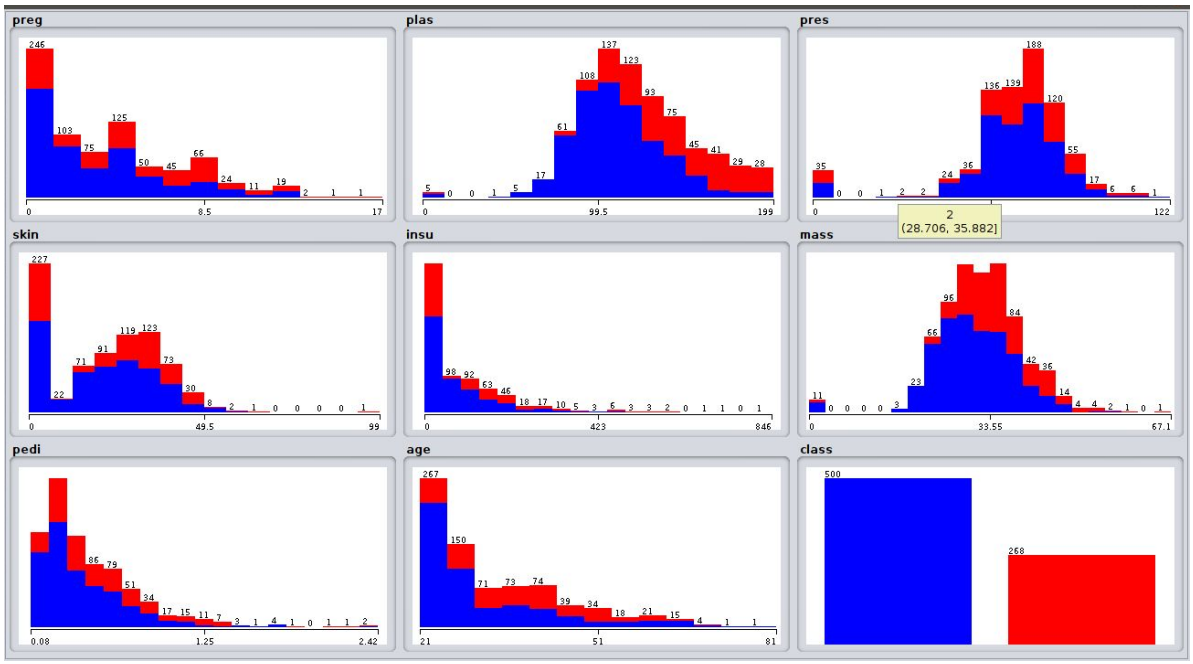
Histogram

Analysing the sample data sets

Dataset 1 : pima_diabetes

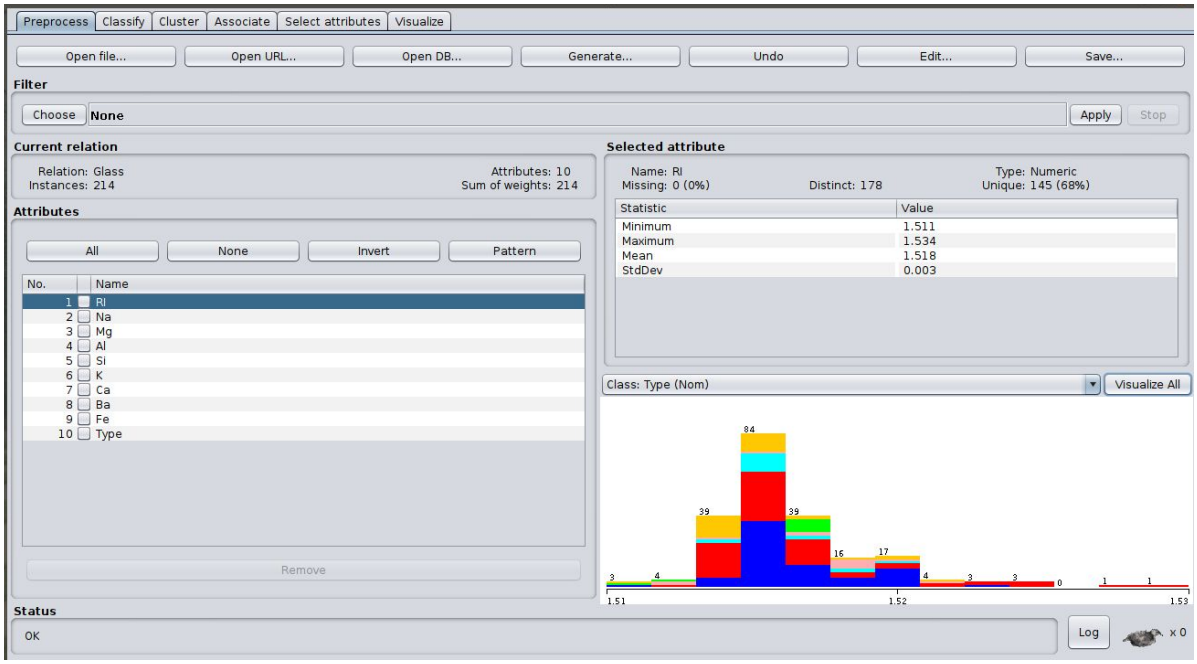


- Observations :
    - Number of records = 768
    - Number of attributes = 9
    - Attributes :
        - Preg - numeric
        - Plas - numeric
        - Pres - numeric
        - Skin - numeric
        - Insu - numeric
        - Mass - numeric
        - Pedi - numeric
        - Age - numeric
        - Class - nominal
- Histogram :



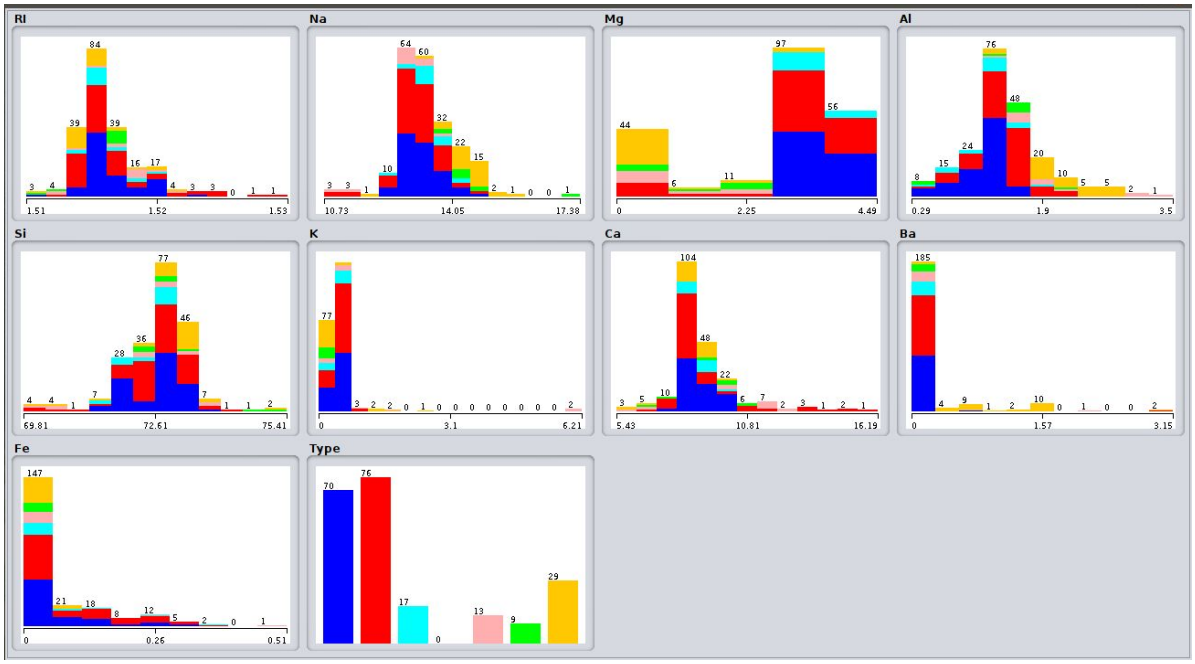
Through the above histogram we can know whether a person falls into diabetes class or not.

Dataset 2 : Glass



- Observations :
  - Number of records = 214
  - Number of attributes = 10
  - Attributes :
    - RI - numeric
    - Na - numeric
    - Mg - numeric
    - Al - numeric
    - Si - numeric
    - K - numeric
    - Ca - numeric
    - Ba - numeric
    - Fe - numeric
    - Type - nominal

- Histogram :



Through the above histogram we can know type of glass on basis of chemical analysis.