

The data file contains the number of surveys conducted in different years in different states. Each survey reports the percentage of cigarette users among those who participated in the survey.

**Step 1 [30]:** Read file and display the number of rows in the data.

**Step 2 [30]:** Find and display the average number of surveys conducted per state.

**Step 3 [30]:** Among the surveys in the data-set, display the minimum and maximum smoking rate.

**Step 4 [30]:** Find average smoker rate per state and display the states with minimum and maximum average.

**Step 5 [40]:** Same as Step 4 but display the top 10 states instead of min and max.

**Step 6 [40]:** Get state and year from the user and display the surveys for that state for that year.

**Step 7 [50]:** Get state from user as input (using input()) and display the average smoker rate year by year. By looking at the most recent 2 years, display if the cigarette use is on decline or rise.

```
Step 1
=====
# of Surveys: 3519
```

```
Step 2
=====
# of States : 51
Average # of Surveys per State: 69.0
```

```
Step 3
=====
Minimum Recorded Cigarette Use:
Year      2015
State      RI
Value      0.2
Name: 0, dtype: object
```

```
Maximum Recorded Cigarette Use:
Year      2003
State      SD
Value     62.3
Name: 3518, dtype: object
```

```
Step 4
=====
```

```
Least Cigarette Use State:
CA 5.992857142857143
```

```
Most Cigarette Use State:
SD 30.221153846153843
```

```
Step 5
=====
```

```
Top 10 Most Cigarette Use States:
      Year      Value
State
SD      2004.076923  30.221154
MT      2006.000000  25.753947
OH      2003.829268  24.541463
AR      2006.967742  23.433871
AL      2004.285714  22.815714
MO      2006.034483  22.193103
US      2005.559322  21.502542
OK      2009.965517  20.953448
WI      2006.333333  20.590476
MS      2004.740260  20.545455
```

**Try to match the screenshots displayed here as much as possible.  
(-50 penalty)**

```
Step 6
=====
```

```
State:CA
```

```
Enter Year:2017
Found 7 surveys:
      Year State  Value
45    2017    CA    1.6
60    2017    CA    1.8
362   2017    CA    4.6
454   2017    CA    5.4
496   2017    CA    5.7
520   2017    CA    5.9
577   2017    CA    6.4
```

```
Step 7
=====
```

```
Enter State:OH
```



```
Cigarette use is on decline in OH .
Compute for another state or enter 'Exit' to exit.
```

```
Enter State:SA
hmmm... cannot find that state.
Compute for another state or enter 'Exit' to exit.
```

```
Enter State:Exit
Bye bye!
```