# SAS Enterprise Guide Tips and Tricks – 1 hour session

1. **Describe the interface** and start page. The ability to create a project or a program, access data, tasks and libraries etc…
2. Mention communities, tutorials and feature requests then click into **Learn SAS Enterprise Guide** to discuss learning options, scroll down to see all the video snippets on topics
3. **TASKS menu** – describe tasks including DATA – sorting, transpose, upload to CAS etc…
4. **Libraries** – you can see data from SAS or others look the same through Access engines
   * Right Click on Baseball table – **EXPLORE** – apply some filters and select rows.
5. Create **New program** – Properties for program icon (to the right of DEBUG) – Code Submission – use GRID if available
6. Open a program ‘C:\Users\sukmid\OneDrive - SAS\Desktop\Student Success – AU\Student Success SAS pgm.sas’ – RUN
   * Describe log and results of summary statistics task
   * 3 dots on right above log – **ANALYSE PROGRAM for GRID**
7. Open STUDENT.Success – Tasks dropdown – **Histogram**
   * You will be prompted to create a project
   * **Analysis Var:** Success\_Rate
   * **Group Analysis by:** State
   * **Classification Var:** University
   * **Distribution:** Normal
   * **RUN**
   * Show Process Flow Created and describe ability to create multiple process flows and extract code
8. Create a **new Process Flow** – + on top of project pane and rename it (right click) Student Retention
9. **Query Data**
   * Click on data STUDENT. ABS\_2019\_4YR\_COMPLETION\_RATES
   * Select Year, Status, Study Areas, % of Students
   * Filter: Where Study Areas not equal to blank 🡪 RUN
10. **Prompt Manager**
    * On left pane select Prompt Manager
    * Add a new prompt for Status
    * Name: Student\_Status
    * Display Text: Please select a status to filter on
    * Prompt Type and Values Tab
      1. Text, single value
      2. Method: user selects value from static list
      3. Get values button
      4. Select data source from project and status
    * Use prompt – modify query
      1. Options
      2. Prompts – select Student\_Status
      3. Filter tab – add filter where status = &student\_status prompt from drop down arrow
      4. RUN and select Value
11. **Query - Computed columns**
    * Open SASHELP.BASEBALL
    * Query 🡪 Create Computed Column called Yearly Run Rate
    * t1."Career Home Runs" / t1."Years in the Major Leagues"
    * Select Players Name, Salary, Computed column Yearly Run Rate
    * Filter on Yearly Run Rate GE 20
    * Create a Computed column using a function on a Text variable
    * Advanced – SCAN(t1.Name,2,',')
    * Sort by Salary Descending
    * Rename output Dataset WORK.SMASHERS
12. **Bar Chart**
    * based on SMASHERS dataset just created with first name and yearly run rate
13. **Advanced Analytics** 
    * STUDENT.STUDENT\_SUCCESS\_INDICATOR
    * Logistic Regression
    * DATA 🡪 Target variable = Success Ind, Quantative vars – last 4, Select a few Class vars
    * Model Response level = No
    * Model Effects = Age Group
    * Plots – select plots 🡪 ROC & Influence
14. **Git Integration**
15. **Viya Integration**
    * Show Tasks – Filter on SAS Studio
    * Upload to CAS