Project: SP2019\_PROJECT\_Valeriano

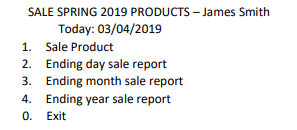
**Summary of Project**

An application that lets employees print a receipt on screen for each sale transaction.

It also allows sales reports to be printed out at the end of a day, month, or year.

**Driver class: SaleSP19Report\_Valeriano**

* Displays a main menu for the user



* Switch on a loop and call methods from data type class
* These methods are located in the driver class:
  + **Sale Product**
    - User is asked for input for the following:
      * How many SP191s to buy?
      * How many SP192s to buy?
      * How many SP193s to buy?
      * How much did the customer pay?
    - The number of units bought is passed to an instance of data class
  + **Ending Day Report**
  + **Ending Month Report**
  + **Ending Year Report**

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**Data type class: ProductSP19\_Valeriano**

* Holds information on…
  + # of SP191 units with price of 12.99 each
  + # of SP192 units for 14.99 each
  + # of SP193 units for 15.99 each
* Has methods for…
  + C**alculating earnings from the SP191s sold**
    - Sale model SP191 = unit price of SP191 \* # of SP191s sold
  + **Calculating earnings from the SP192s sold**
    - Sale model SP192 = unit price of SP192 \* # of SP192s sold
  + **Calculating earnings from the SP193s sold**
    - Sale model SP193 = unit price of SP193 \* # of SP193s sold
  + **Calculate sub total**
    - Sales of 191, 192, and 193 combined
  + **Calculate Tax**
    - Subtotal \* 8.25% (.0825?)
  + **Calculate total**
    - Subtotal + tax
  + **Calculate Balance**
    - The amount the user decides to pay – total
    - Where does the user put in the amount they want to pay?
  + **Write a line to an output file of day**
    - File name example for 03/04/2019 is DaySale\_20190304.txt
    - A line is split into 4 columns for…
      * Transaction (random number?)
      * # of SP191 units sold
      * # of SP192 units sold
      * # of SP193 units sold
    - Example:



* + **Write a line of output to a file for a month (tracks # of units sold each day in a month)**
    - File name example for March 2019 is MonthSale\_201903.txt
    - 4 columns for…
      * The current day? (from 1 to 31 for March)
      * # of SP191 units sold
      * # of SP192 units sold
      * # of SP193 units sold
    - Example for march 4th:



* + **Write line to an output file for a year (tracks # of units sold each month in a year)**
    - File name for year 2019 would be YearSale\_2019.txt
    - 4 columns for…
      * The month (1 to 12)
      * # of SP191 units sold
      * # of SP192 units sold
      * # of SP193 units sold
    - Example for march:



* + **Printing out a receipt**
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