

1. Pseudo-code a system that will keep track of students and their individual grades for a year. After a new grade has been added, if the student's new average grade is a C or less, a warning message should be displayed.

```
Top
Entering Grades or Students?
If entering students
    Start Students
    Enter Student Information
    Save Student Information
    More students to enter?
    If yes then go to start students
    Go to top
If Entering Grades
    Start Grades
    Entering new assignment for clasS?
    if yes
        Get assignment information
        Save assignment information
    Get student name
    Find Student
    If student does not exist
        display error message
    Else
        Get grade
        Get current average
        Recalculate average
        Store Average
        If average < 82 %
            Display warning
    More students?
    If yes the goto Start Grades
    Go to top
```

2. Pseudo-code a system that will keep track of vehicle maintenance and miles. A warning message should be displayed when the miles between the last oil change reaches 3000 or greater. A warning message should be displayed when the miles between the last tire rotation reaches 6000 or greater. a warning messeage should be display when the miles between inspections reaches 15000 or more.

```
Top
Get vehicle name
find vehicle name in list
If vehicle exists
    Set current miles = miles stored
    Set last OC = stored value
    Set Last TR = stored value
    Set Last IN = stored Value
Else
    Add vehicle to list
```

```
        Set cur miles to 0
        Set Last OC = 0
        Set last TR = 0
        Set Last IN = 0
Get new miles from user
Get type of maintenance from user
if new miles - lastOC >= 3000 AND
Type of maintenance != oil change
    Display warning
if new miles - last tr >= 6000 AND
Type of maintenance != tire rotate
    display warning
if new miles - last in >= 15000 AND
Type of maintenance != inspection
    display warning
If type of maintenace = oc then
    set LastOC = new miles and store
If type of maintenance = tr then
    set lasttr = newmiles and store
if type of maintenace = in then
    set lastin = new miles and store
more maintenancE?
if yes then go to top
```