* Student Names
* Record
* Alter grades
* Final Semester grades
* Grades.dat

1. **Commands** 
   1. S = new semester
      1. Number of assignments ( assignments >= 0 && assignment <=6)
      2. Number of tests (test >= 0 && test <=3)
      3. Final exam (final >=0 && final <=1)
      4. Weight of each altogether adding up to 100 (100%) (e.g. assignment(s) = 30, test(s) = 30, final = 40, 30+30+40 = 100)
   2. A = add a student
      1. First name
      2. Last name
      3. Student number (1-9999)(check number is not repeated)
   3. P = program assignment is recorded
      1. Ask which assignment
      2. (upon valid assignment #) prompt each student name alphabetically
      3. If assignment # greater than # of assignments, print error message
   4. T = test grade is recorded
      1. Ask which test is to be recorded
      2. If test # is in valid prompt error message
      3. (upon valid test #) prompt each student name alphabetically
   5. F = record final exam grade
      1. Prompt each student name alphabetically
      2. If no final print out error message
   6. C = Change a grade
      1. Change grade on a valid student, valid assignment, test, or final.
      2. If not print out error message
   7. G = Calculate the final grade
      1. There must be students, and contain graded assignments, tests, or final.
      2. If not print out error message
   8. O = output grade data
      1. There must be data(students)
   9. Q = quit the program
2. **Cases (preconditions)**
   1. Case P ( assignment != 0)
   2. Case T (test !=0)
   3. Case F(final !=0)
   4. Case C(must have a grade in the test, grade or assignment)
   5. Case G(there must be students)
   6. Case O