# Advanced Programming COEN 11

- People List information
  - Name
  - Age
  - Status
    - Age <= 21 name of school
    - 21 < Age < 65 salary per month
    - Age >= 65 years of retirement

- People List -- commands
  - >0 to input a person
    - Name, Age, Status
  - ≥1 to delete a person
    - Name
  - >2 to show the current list of info
  - ≥3 to quit

- Your program has 1 array of structures
  - > Each struct has three members
    - name char array
    - age -- int
    - status union (type depends on age)
      - Each union has three members
        - » school name (age <= 21) char array</pre>
        - » salary per month (21 < age < 65) float
        - >> year of retirement (age >= 65) int

- Your program keeps a <u>counter</u>, which indicates how many elements are in the list
- According to the command, the program
  - > 0 insert an element at the position indicated by counter and increase the counter
  - > 1 delete the element with the given name
    - to keep all the elements together, copy the last one to the deleted one and decrease the counter
  - > 2 show all the elements, from position zero to counter-1
  - > 3 quit

- Requirements
  - ≥1 array of structures
    - one of the members in the struct is a union
  - >Global variables:
    - array and counter ONLY!!
  - >4 functions:
    - main, insert, delete, show