## **Theo Andonyadis**

This program loads a structure with 5 rows of 10 sample student test grades and prints them, each row corresponding with the grades of one student. The first 7 grades are quizzes, weighted at 25%, grades 8 and 9 are midterms, weighted at 40% total, and grade 10 is a final, weighted at 35%. The program finds the simple mean of each row and prints it, then applies the weighting distribution to calculate each student's grade and prints them.

## Part A

```
A= load("students.mat", "students");
B= [A.students];
100
         90
              95
                        100
                             100
                                         95
                                              93
                                                   94
                   80
                                   90
   75
                                         75
                                                   79
        60
              40
                   45
                        60
                              65
                                   70
                                              90
   85
        90
              80
                   75
                        100
                              60
                                   90
                                         84
                                              86
                                                   88
   40
        100
             100
                   64
                        90
                              70
                                   90
                                         88
                                              76
                                                   89
                   73
                        75
   60
        65
              70
                              80
                                   85
                                         88
                                              90
                                                  100
```

## Part B

```
C= [sum(B(1,:))/10, sum(B(2,:))/10, sum(B(3,:))/10, sum(B(4,:))/10, sum(B(5,:))/10];
%or mx=mean(x,2);
fprintf('%.2f\n', C)
93.70
65.90
```

## Part C

83.80 80.70 78.60

```
S1= 0.25*sum(B(1,1:7))/7 + 0.4*sum(B(1,8:9))/2 + 0.35*sum(B(1,10)); \\ S2= 0.25*sum(B(2,1:7))/7 + 0.4*sum(B(2,8:9))/2 + 0.35*sum(B(2,10)); \\ S3= 0.25*sum(B(3,1:7))/7 + 0.4*sum(B(3,8:9))/2 + 0.35*sum(B(3,10)); \\ S4= 0.25*sum(B(4,1:7))/7 + 0.4*sum(B(4,8:9))/2 + 0.35*sum(B(4,10)); \\ S5= 0.25*sum(B(5,1:7))/7 + 0.4*sum(B(5,8:9))/2 + 0.35*sum(B(5,10)); \\ D= [S1, S2, S3, S4, S5]; \\ \% OR M=mean(x(:,1:7),2)*0.25 ... \\ \% fprintf('%4.2f\n',M) \\ fprintf('%.2f\n',D)
```

93.89

75.47

85.51

83.74

88.74