

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% The program inputs the vector and automatically rounds the grades %
% towards the closets actual grade. If a grade is in between two grades %
% %
% it will be rounded UP. %
% %
% Input: Vector or scalar with grade(s) %
% Output: Vector or scalar with rounded grade(s) %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

function gradesRounded = roundGrade(grades)
% Defines the scale
scale = [12, 10, 7, 4, 02, 00, -3];

% Finds which number the the scale is closest to the grade and rounds
% towards that. If a grade is right between two grades it will round up.
gradesRounded = interp1(scale, scale, grades, 'nearest', 'extrap');

```