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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 133
% Program Description: Create an exercise schedule
%
% Assignment Information
%   Assignment:     Ma3 Task3
%   Author:         Roshan Sundar, rmsundar
%   Team ID:        LC1-04
%   Contributor:    Ayush Viswanathan, Jackson Bitterolf, Nolan Hays
%   My contributor(s) helped me:
%     [ ] understand the assignment expectations without
%         telling me how they will approach it.
%     [ ] understand different ways to think about a solution
%         without helping me plan my solution.
%     [ ] think through the meaning of a specific error or
%         bug present in my code without looking at my code.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

initialize schedule matrix with 0 in correct dimensions

```
schedule = zeros(4,7);
```

CALCULATIONS

```
index = 1;
% loop over each element
for i = 1:size(schedule,1)
    for j = 1:size(schedule,2)
        % if element in column 7
        if j == 7
```

```
            schedule(i,j) = 0;
        % if element in column 2
        elseif j == 2
            schedule(i,j) = 60;
        % if element index even
        elseif mod(index, 2) == 0
            schedule(i,j) = 45;
        % if element index odd
        else
            schedule(i,j) = 30;
        end
        index = index + 1;
    end
end

disp_fun_task3(schedule)
```

OUTPUTS

```
function disp_fun_task3(sched)
    disp("The exercise plan is:")
    % Add day headers above each column
    array = ["M" "T" "W" "Th" "F" "Sa" "Su"; sched];
    disp(array)
end
```

```
The exercise plan is:
    "M"     "T"     "W"     "Th"    "F"     "Sa"    "Su"
    "30"    "60"    "30"    "45"    "30"    "45"    "0"
    "45"    "60"    "45"    "30"    "45"    "30"    "0"
    "30"    "60"    "30"    "45"    "30"    "45"    "0"
    "45"    "60"    "45"    "30"    "45"    "30"    "0"
```

ACADEMIC INTEGRITY STATEMENT

I have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I provided access to my code to another. The project I am submitting is my own original work.

Published with MATLAB® R2020b