

%Name: Nicholas Rosato

%Assignment: Matlab Project

%Team/Section: 10, 002

```
function[] = exec_function_project_rosaton(Start,Warnings,Employee_Number)
```

%Initialization

```
[Start,Warnings,Employee_Number] = Starting_Function_rosaton();
```

```
[All,One,Introduction] = imbedded_rosaton();
```

%Program In action, there is some initialization throughout the program

%after this line.

```
if Start == 0 %Introduction
```

```
    fprintf('\nWelcome to PTO Calculator. This program takes in a spread sheet of  
employee data based on hours worked and hours scheduled to calculate paid time off and  
what to do if the employee is breaking the rules.\n' )
```

```
    fprintf('\nPlease go into the Start function and set your preferences.\n' )
```

```
    fprintf('\nIf you want to see info on all Employees, set "Start" equal to "All"  
(make sure the A is captialized), If you want to look into detail on one employee, set  
Start equal to "One" (make sure the O is capitalized).\n' )
```

```
    fprintf('\nAfter your preferences are set, run the exec function again.\n' )
```

```
elseif Start == 1 %If the preference "One" is choosen
```

```
    e_data = load('employee_data.txt'); %This is the script the function will bring in
```

```
    if Employee_Number == 0
```

```
        fprintf('\nPlease enter Employee_Number 1-%d in the start function.\n',length  
(e_data))
```

```
        fprintf('\nPlease also enter the number of warnings this employee has had in  
the start function.\n' )
```

```
        fprintf('\nAfter you have set these preferences in the start function, Run the  
exec function again.\n' )
```

```
    elseif Employee_Number < 5
```

```
        [Employee] = employee_reference_rosaton(Employee_Number,e_data);
```

```
    elseif Employee_Number >=5 & Employee_Number <= 16
```

```
        [Employee] = employee_reference_rosaton_2(Employee_Number,e_data);
```

```
    elseif (Employee_Number > 16) & (Employee_Number <= length(e_data))
```

```
        [Employee] = employee_reference_rosaton_3(Employee_Number,e_data);
```

```
    elseif Employee_Number > length(e_data)
```

```
        fprintf('\nPlease enter a valid Employee_Number 1-%d, your number is too high.  
\n',length(e_data))
```

```
    end
```

```
    if (Employee_Number > 0) & (Employee_Number <= length(e_data))
```

```
        [PTO_Bank,PTO,New_Employee,Ability] = employee_PTO_Bank_rosaton(Employee,  
Employee_Number,e_data,Warnings);
```

```
        if Ability == 1
```

```
            fprintf('\nCongratulations, this employee has earned 2 hours of paid time off.  
\n' )
```

```
        elseif Ability == 0
```

```
            fprintf('\nThis employee has not Earned Paid Time off.\n' )
```

```
            if PTO_Bank < 0
```

```
                fprintf('\nWarning will be administered.\n' )
```

```

        if Warnings == 1
            fprintf('\nAdminister written warning.\n')
        elseif Warnings >= 2
            fprintf('\nConsider termination.\n')
        elseif Warnings == 0
            fprintf('\nAdminister verbal warning.\n')
        end
    end
end
end
elseif Start == 2 %If the preference "All is chosen"
    e_data = load('employee_data.txt');
    [n] = n_output_rosaton(e_data);
    Employee_Number = 1
    %This loops through all employees, n is initialized in the n output
    %function
    for i = 1:n;
        if Employee_Number < 5
            [Employee] = employee_reference_rosaton(Employee_Number,e_data);
        elseif Employee_Number >=5 & Employee_Number <= 16
            [Employee] = employee_reference_rosaton_2(Employee_Number,e_data);
        elseif Employee_Number > 16
            [Employee] = employee_reference_rosaton_3(Employee_Number,e_data);
        elseif Employee_Number > 36
            fprintf('\nPlease enter a valid Employee_Number 1-%d, your number is too high\n',length(e_data))
        end
        if (Employee_Number > 0) & (Employee_Number < length(e_data))
            [PTO_Bank,PTO,New_Employee,Ability] = employee_PTO_Bank_rosaton(Employee,
Employee_Number,e_data,Warnings);
            if Ability == 1
                fprintf('\nCongratulations, this employee has earned 2 hours of paid time off.\n')
            elseif Ability == 0
                fprintf('\nThis employee has not earned paid time off.\n')
            if PTO_Bank < 0
                fprintf('\n Warning will be Administered.\n')
                fprintf('\n If you want to see details about warnings with this employee, set "Start" equal to "One" and enter how many warnings this employee has had along with the employee's number in the start function\n' )
            end
        end
    end
    Employee_Number = Employee_Number + 1
end
end
end
end

```

