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% Example Problems for Week 2 Material:
%% Question 1: Find the Error:
clc; clear;

Star_Wars = 1; Star_Trek = 0;
if Star_Wars == 1
    disp('Star Wars is awesome.')
elseif Star_Trek = 1
    disp('Star Trek is terrible.')
end

%% Question 2: Find the Error:
clc; clear;

True = 1; False = 0;
True = False; False = 0;
switch(True)
    case(1)
        disp('False')
    case(0)
        disp('True')
        if True == 0
            True = 1; False = 1;
            disp('There are no errors')
        end
    otherwise
        disp('Invalid')
end

%% Question 3: Write the Output
clc; clear;

Bobby = 1; Billy = 0;
x = Bobby | Billy;
y = Bobby & Billy;
z = xor(Bobby, Billy);
w = ~(((Bobby|Billy) & Billy)|Billy);
t = xor(w, z);
disp([x y z w t])


%% Question 4: Free Response
clc; clear;

% Allow the user to input a city in california. If the city is
Irvine, display UCI. If Los Angeles, display UCLA. If Berkely,
display UCB. If San Diego, display UCSD. If San Francisco,
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display UCSF. If Santa Barbara, display UCSB. If Davis, display UCD. If Santa Cruz, display UCSC. If Riverside, display UCR. For any other city entered, display "I see no UC."

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ANSWERS (PLEASE DON'T LOOK UNTIL YOU ARE DONE)

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%% Question 1: Find the Error:
clc; clear;

Star_Wars = 1; Star_Trek = 0;
if Star_Wars == 1
    disp('Star Wars is awesome.')
elseif Star_Trek = 1        % <--- There should be "==", NOT "="
    disp('Star Trek is terrible.')
end


%% Question 2: Find the Error:
clc; clear;

True = 1; False = 0;
True = False; False = 0;
switch(True)
    case(1)
        disp('False')
    case(0)
        disp('True')
        if True = 0
            True = 1; False = 1;                    % NO ERROR
            disp('There are no errors')
        end
    otherwise
        disp('Invalid')
end


%% Question 3: Write the Output
clc; clear;

Bobby = 1; Billy = 0;
x = Bobby | Billy;
y = Bobby & Billy;
z = xor(Bobby, Billy);
w = ~(((Bobby|Billy) & Billy)|Billy);        % 1   0   1   1   0
t = xor(w, z);
disp([x y z w t])


%% Question 4: Free Response
clc; clear;
```

% Allow the user to input a city in california. If the city is Irvine, display UCI. If Los Angeles, display UCLA. If Berkely, display UCB. If San Diego, display UCSD. If San Francisco, display UCSF. If Santa Barbara, display UCSB. If Davis, display UCD. If Santa Cruz, display UCSC. If Riverside, display UCR. For any other city entered, display "I see no UC."

Answer ----> I don't need to give you the answer, since you can determine whether the code works properly. Just run your code, enter in each of the cases, and see if you get the results that the question requires. To approach this problem, you need to use the switch case format. Make sure that you do not confuse if statements with the switch case!