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% ENGR 133
% Program Description:
% Assignment Information
Assignment: Ma2 Task7
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Team ID:
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```

### INITIALIZATION

```
v = [10 \ 5 \ 1 \ 8 \ -9 \ 0 \ 2 \ 3];
```

### **CALCULATIONS**

```
v1 = v;
descend = zeros(1, length(v));
for i=1:length(v1)
      [M,I] = max(v1);
      descend(i) = M;
      v1(I) = min(v1) - 1;
end

v2 = v;
ascend = zeros(1, length(v));
for i=1:length(v2)
      [M,I] = min(v2);
      ascend(i) = M;
      v2(I) = max(v2) + 1;
end
```

## **OUTPUTS**

```
disp('Vector sorted in descending order:')
disp(descend)
disp('Vector sorted in ascending order:')
disp(ascend)
Vector sorted in descending order:
    10
                  5
                        3
                              2
                                    1
                                                -9
Vector sorted in ascending order:
                        2
                                                10
    -9
           0
                  1
                              3
```

# **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.

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