Name: Mubashar Khan **Assignment #:** 3

Summary of Problem Statement

Problem # 1

Determine whether the motor should be enabled or not based on menu selections

Known / Input

Brake = ON/OFF
Operator = Seated/Not Seated'
Blades ON/OFF
LeftLever = Forward/Neutral/Backward
RightLever = Forward/Neutral/Backward
Ignition = ON/OFF

Unknown / Output

Motor should be disabled

Motor should be enabled

Assumptions

None

Other Variables

None

Algorithm

The program must meet 4 key requirements:
The ignition switch must on.
If the blades are powered, the operator must be properly seated.
If the operator is not properly seated, both guide levers must be in the locked neutral position.
If either guide lever is not in the locked neutral position, the brake must be off.

First the user was asked to select between a few options
Then based on the requirements above, if statements were used to create an output for every scenario that I could think of.

Test Cases

Using the test cases provided -----> Brake = ON, Operator = Seated, Blades = OFF, LeftLever = Neutral Rightlever = Neutral. OUTPUT: motor should be disabled