Deborah Barndt

ITMD 513 Open Source Programming

Professor Dr. Sam

Hw2

1-30-19

'''

Deborah Barndt

1-30-19

DieselEngineTroubleshooting.py

hw1: Diesel Engine Troubleshooting

This program will ask the user for input on how to troubleshoot their diesel

engine via a troubleshooting chart, and display a solution to their problem.

Written by Deborah Barndt.

'''

# Give a welcome message to the user.

print('Welcome to the Diesel Engine Troubleshooting Program.\n')

# Ask the user what color their status lights are.

light\_status = input('What color are the status lights? [green, red, or amber] ')

# Create if/else statements to flow through the troubleshooting chart.

# Display the result if light status is green.

if (light\_status == 'green'):

print('Do a restart procedure.')

print('\nThank you for using the Diesel Engine Troubleshooting Program.')

# Display the result if light status is amber.

elif (light\_status == 'amber'):

print('Check the fuel line service routine.')

print('\nThank you for using the Diesel Engine Troubleshooting Program.')

# Display the result if the light status is red.

elif (light\_status == 'red'):

print('Shut off all input lines, then check meter #3.')

# Ask the user if meter #3 is less than 50 or greater than or equal to 50.

meter3 = int(input('\nWhat number does meter #3 display? '))

# Display the result if meter #3 is less than 50.

if (meter3 < 50):

print('Check the main line for test pressure.')

# Ask the user what the test pressure is.

test\_pressure = input(

'\nWhat is the test pressure on the main line? [normal, high, or low] ')

# Display result if the test pressure is normal.

if (test\_pressure == 'normal'):

print('Refer to the motor service manual.')

print('\nThank you for using the Diesel Engine Troubleshooting Program.')

# Display the result if the test pressure is high or low.

elif (test\_pressure == 'high' or test\_pressure == 'low'):

print('Refer to the main line manual.')

print('\nThank you for using the Diesel Engine Troubleshooting Program.')

else:

print('Please enter the correct input.')

print('Please try again.')

# Display the result if meter #3 is greater than or equal to 50.

elif (meter2 >= 50):

print('Measure the flow velocity at inlet 2-B.')

# Ask the user what is the flow velocity of inlet 2-B.

flow\_velocity = input(

'\nWhat is the flow velocity of inlet 2-B? [high, low, or normal] ')

# Display the result if the flow velocity is high or low.

if (flow\_velocity == 'high' or flow\_velocity == 'low'):

print('Refer the diesel engine unit for factory service.')

print('\nThank you for using the Diesel Engine Troubleshooting Program.')

# Display the result if the flow velocity is normal.

elif (flow\_velocity == 'normal'):

print('Refer to the inlet service manual.')

print('\nThank you for using the Diesel Engine Troubleshooting Program.')

else:

print('Please enter the correct input.')

print('Please try again.')

else:

print('Please enter the correct input.')

print('Please try again.')

Output Results:





