1.   Code

Truck.cpp

```cpp
#include "Truck.h"
Truck::Truck()
{
        dieselTypeStatus = false;
}

void Truck::setDieselTypeStatus(bool thisStatus)
{
        dieselTypeStatus = thisStatus;
}

bool Truck::getDieselTypeStatus()
{
        return dieselTypeStatus;
}
```

Truck.h

```cpp
#pragma once
#ifndef TRUCK_H
#define TRUCK_H

class Truck
{
public:
        Truck();
        void setDieselTypeStatus(bool thisStatus);
        bool getDieselTypeStatus();
private:
        bool dieselTypeStatus;
};

#endif // !TRUCK_H
```

Stub_main_TruckTest.cpp

```cpp
#include "Truck.h"

int main()
{
        Truck myTruck;
        int tempAge;
        int tempStatus;
        float tempPrice;


        do {
```

```
            cout << "Type 1 if it IS a diesel-type and type 0 if it IS NOT a diesel-
type: ";
            cin >> tempStatus;
            if (tempStatus < 0 || tempStatus > 1)
            {
                    cout << endl << "Invalid input. Please try again with number 1 or
number 0" << endl;
            }
      } while (tempStatus < 0 || tempStatus > 1);
      myTruck.setDieselTypeStatus(tempStatus);

      cout << endl << "Diesel Type Status stored" << endl;

      if (myTruck.getDieselTypeStatus())
      {
            cout << "Your truck, Ford F-150, IS a diesel-type" << endl;
      }
      else {
            cout << "Your truck, Ford F-150, IS NOT a diesel-type" << endl;
      }
      return 0;
}
```
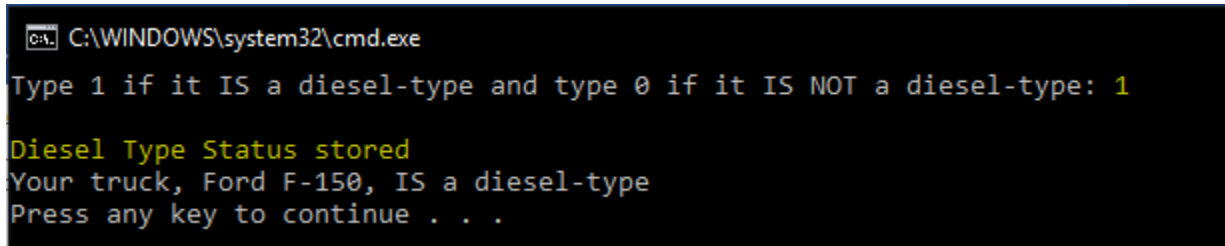
2.   Test Plan

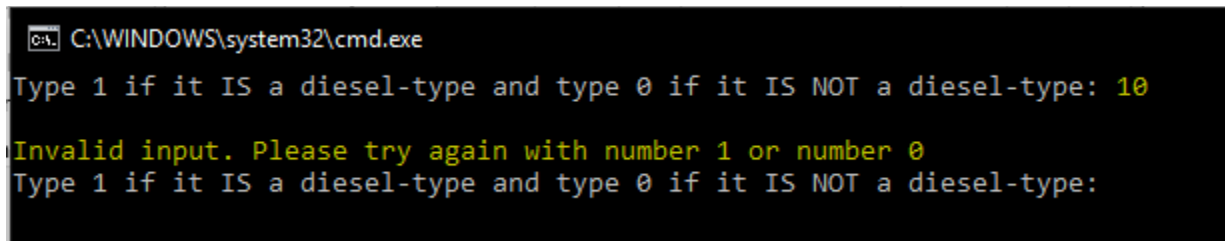| Test Strategy	Test Number	Description	Input	Expected Output	Actual Output	Pass/Fail
Valid	1	User enters corresponding number for choosing either true or false for diesel type status	User enters "1" for true for diesel type status	"Diesel Type Status stored"	"Diesel Type Status stored"	Pass
Invalid	1	User enters number not corresponding to choosing either true or false for diesel type status	User enters "10" for true for diesel type status	"Invalid input. Please try again with number 1 or number 0"	"Invalid input. Please try again with number 1 or number 0"	Pass

3.   Screenshots

Valid Test Case 1:

```
C:\WINDOWS\system32\cmd.exe
Type 1 if it IS a diesel-type and type 0 if it IS NOT a diesel-type: 1

Diesel Type Status stored
Your truck, Ford F-150, IS a diesel-type
Press any key to continue . . .
```

Invalid Test Case 1:

```
C:\WINDOWS\system32\cmd.exe
Type 1 if it IS a diesel-type and type 0 if it IS NOT a diesel-type: 10

Invalid input. Please try again with number 1 or number 0
Type 1 if it IS a diesel-type and type 0 if it IS NOT a diesel-type:
```