1.   Code

Car.cpp

```cpp
#include "Car.h"
Car::Car()
{
        raceCarStatus = false;
}

void Car::setRaceCarStatus(bool thisStatus)
{
        raceCarStatus = thisStatus;
}

bool Car::getRaceCarStatus()
{
        return raceCarStatus;
}
```

Car.h

```cpp
#pragma once
#pragma once
#ifndef CAR_H
#define CAR_H

class Car
{
public:
        Car();
        void setRaceCarStatus(bool thisStatus);
        bool getRaceCarStatus();
private:
        bool raceCarStatus;
};

#endif // !CAR_H
```

Stub_main_Car.cpp

```cpp
#include "Car.h"

int main()
{
        Car Civic;
        int tempStatus;

        do {
                cout << "Type 1 if it IS a race car and type 0 if it IS NOT a race car: ";
                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);
    Civic.setRaceCarStatus(tempStatus);
    cout << "Race Car Status stored" << endl;

    if (Civic.getRaceCarStatus())
    {
            cout << "Your car, CIvic, IS a race car" << endl;
    }
    else {
            cout << "Your car, Civic, IS NOT a race car" << endl;
    }


    return 0;
}
```
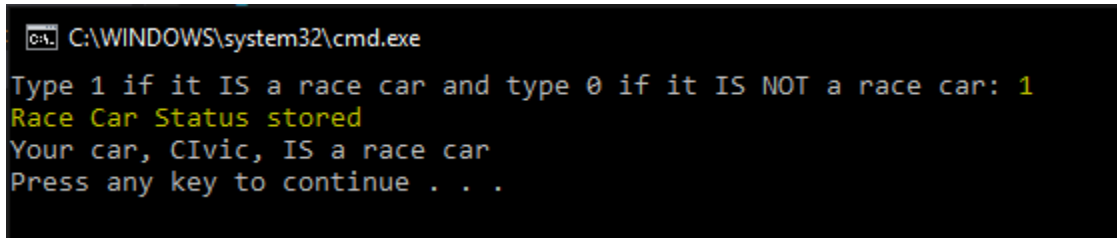
2.   Test Plan

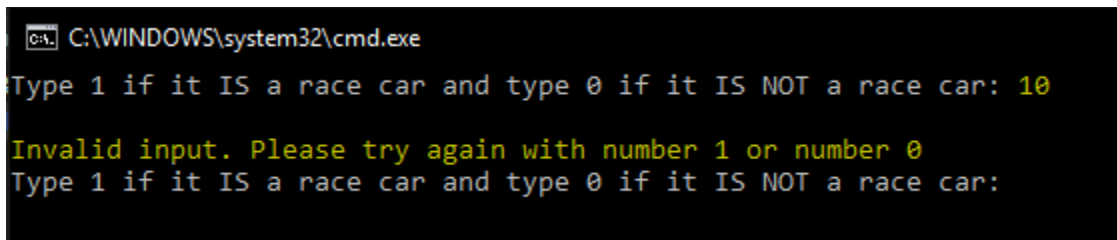| Test Strategy	Test Number	Description	Input	Expected Output	Actual Output	Pass/Fail
Valid	1	User enters corresponding number for choosing either true or false for race car status	User enter "1" for true for car status	"Race Car Status stored"	"Race Car Status stored"	Pass
Invalid	1	User enters number not corresponding to choosing either true or false for race car status	User enters "10" for true for race car 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 race car and type 0 if it IS NOT a race car: 1
Race Car Status stored
Your car, CIvic, IS a race car
Press any key to continue . . .
```

Invalid Test Case 2


```
C:\WINDOWS\system32\cmd.exe

Type 1 if it IS a race car and type 0 if it IS NOT a race car: 10

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