Lab 4 Test Cases

Test Case #1:

The following code shows that you cannot declare more than MAX number of variables. In this case, MAX is defined to be two for ease of showing that this functionality works.

Program was run on the following code:

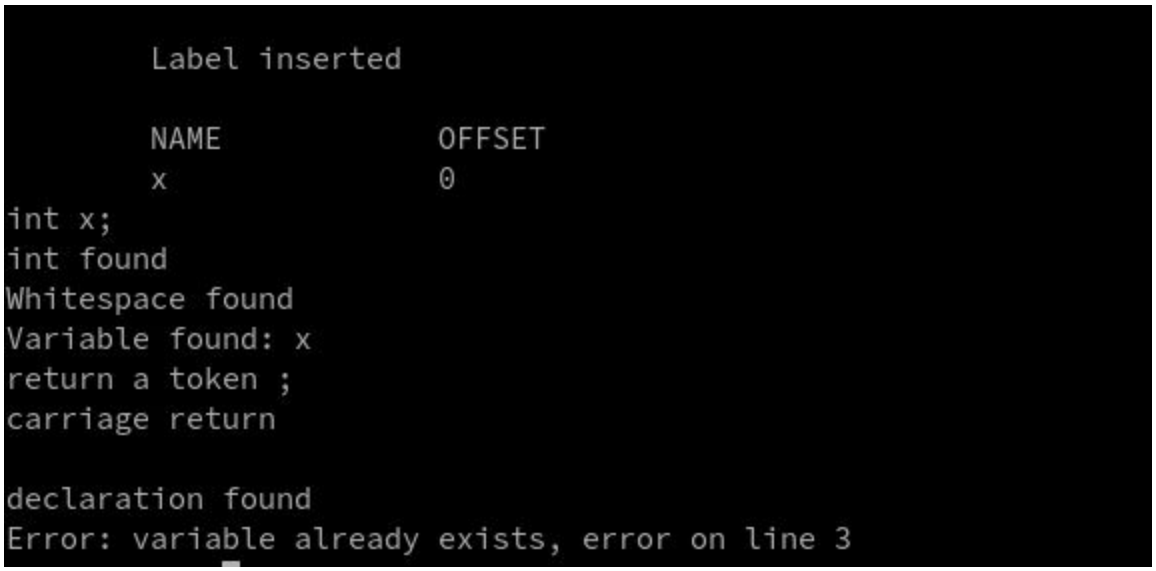
```
int x;
int y;
int z;
```

Test Case #2:

The following code shows that you cannot declare a variable more than once.

Program was run on the following code:

```
int x;
int x;
```



Test case #3:

The following code shows that you cannot assign a value to a variable that has not been declared

Program was run on the following code:

```
int x;
y = 5
```

```
        Label inserted

        NAME            OFFSET
        x               0
y = 5
Variable found: y
Whitespace found
return a token =
Whitespace found
Digit found
found an integer
carriage return

Cannot assign a value to a nonexistent variable, error on line 3
```

Test case #4:

The following code shows that variables can be assigned values and can be used in calculations.

Program was run on the following code:

```
int count;
int x;
count = 1+(2*3)
x = 2
count + x;
```

```
found a variable value: count = 7

        NAME            OFFSET
        count           0
        x               1
Whitespace found
Variable found: x
found a variable value: x = 2

        NAME            OFFSET
        count           0
        x               1
carriage return

the answer is 9
```