

Test Case Screenshots

- a) Show that if you define more than the MAX number of variables, then you error.
(Max was set to 5 for this example)

```
fidelisoto452@Maliwan-PC:/mnt/c/Users/Fidel/Google Drive/NMSU/C/CS370/Lab_4$ make
yacc -d lab4.y
lex lab4.l
gcc lex.yy.c y.tab.c symtable.c -o lab4
fidelisoto452@Maliwan-PC:/mnt/c/Users/Fidel/Google Drive/NMSU/C/CS370/Lab_4$ ./lab4
int Var1;
int Var2;
int Var3;
int Var4;
int Var5;
int Var6;
Error. Max Variable Limit Reached
```

- b) Show that you cannot declare a variable more than once

```
fidelisoto452@Maliwan-PC:/mnt/c/Users/Fidel/Google Drive/NMSU/C/CS370/Lab_4$ make
yacc -d lab4.y
lex lab4.l
gcc lex.yy.c y.tab.c symtable.c -o lab4
fidelisoto452@Maliwan-PC:/mnt/c/Users/Fidel/Google Drive/NMSU/C/CS370/Lab_4$ ./lab4
int Var1;
int Var2;
int Var3;
int Var4;
int Var5;
int Var1;
Error. Variable already declared
int Var2;
Error. Variable already declared
int Var3;
Error. Variable already declared
int Var4;
Error. Variable already declared
int Var5;
Error. Variable already declared
```

- c) Show that you cannot use a variable that is not defined

```
fidelisoto452@Maliwan-PC:/mnt/c/Users/Fidel/Google Drive/NMSU/C/CS370/Lab_4$ ./lab4
int Var1;
int Var2;
int Var3;
int Var4;
int Var5;
int Var6;
Error. Max Variable Limit Reached
Var6
WARNING: Variable Var6 has not been declared.
Var10
WARNING: Variable Var10 has not been declared.
Var49
WARNING: Variable Var49 has not been declared.
█
```

- d) Show that a declared variable can be set and used (left and right hand side)

```
int Var1;
int Var2;
int Var3;
int Var4;
int Var5;
Var1 = 20;
Var1
the answer is 20
Var2 = Var1 / 2;
Var2
the answer is 10
Var3 = Var2 * Var1;
Var3
the answer is 200
Var4 = -4;
Var5 = -Var4;
Var5
the answer is 4
█
```