if you define more than the MAX number of variables, then you error:

```
CS370/Lab4> lab4
        int y1;

        name inserted

        NAME                OFFSET
        y1                  0
int y2;

        name inserted

        NAME                OFFSET
        y1                  0
        y2                  1
int y3;
Error: Max number of variables reached:2
```

you cannot declare a variable more than once:

```
CS370/Lab4> lab4
int y1;

        name inserted

        NAME                OFFSET
        y1                  0
int y1;
Error: Unkown variable found
```

you cannot use a variable that is not defined:

```
CS370/Lab4> lab4
int y1;

        name inserted

        NAME                OFFSET
        y1                  0
y2 = 3
found an integer
Error: Unkown variable found
```

a declared variable can be set and used:

```
CS370/Lab4> lab4
int y1;

        name inserted

        NAME                OFFSET
        y1                  0
int y2;

        name inserted

        NAME                OFFSET
        y1                  0
        y2                  1
y1 = 7
found an integer
y2 = ( y1 + 3 )
found a variable value = y1
found an integer
y2
found a variable value = y2
the anwser is 10
```