Extending Cradle pas

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LAB4

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1 The purpose lab4

The purpose of this is to learn how to parse and translate mathematical expressions. We would like to see as output is a series of assembler-language statements that perform the desired action.

2 Step 1:Edited Program on Sublime text

```
| Characteria | Company |
```

Figure 1:

```
Excadelpss - Sublime Total View Goto Tools Project Preferences Help

The Edit Selection Find View Goto Tools Project Preferences Help

The Additional Preferences Help

The Additiona
```

Figure 2:

Figure 3:

We edited the program of cradle that we already had with the new instructions sent. The we extracted TPascal 4 and save it on a C drive. Then edited program was then copied to TPascal 4.

```
| Company | Comp
```



Figure 4: Loaded and compiled cradle.pas

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: TURBO

To activate the keymapper ctrl-F1.
For more information read the README file in the DOSBox directory.

HAVE FUN!
The DOSBox Team http://www.dosbox.com

Z:\>SET BLASTER=A220 17 D1 H5 T6

Z:\>MOUNT B: C:\
Mounting c:\ is NOT recommended. Please mount a (sub)directory next time.
Drive B is mounted as local directory C:\
Z:\>B\
Illegal command: B\\.
Z:\>B:\>CD TPascal4

B:\TPascal4>cd turbo.exe
Unable to change to: turbo.exe.

B:\TPascal4>TURBO.EXE
```

Figure 5: Mounted C drive and executed TPascal

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: TURBO

Z:\Nmount B: c:\
Mounting c:\ is NOT recommended. Please mount a (sub)directory next time.

Drive B is mounted as local directory c:\

Z:\Nb:

B:\Ncd tpascal4

B:\TPASCAL4>turbo.exe

7+7
Runtime error 202 at 0000:02DB.

7-4

MOUE #7, DO
MOUE DO,D1
MOUE #4, DO
SUB D1,DO

9+3

MOUE #9, DO
MOUE #3, DO
ADD D1,DO

Press any key to return to Turbo Pascal_
```

Figure 6: Implementation of output