Test Environment

No special equipment or specifications needed. Just a working terminal!

Test Cases

Number	Test	Test Step	Expected Result	Outcome
1	Three processes running	run program, check task manager	3 processes show up in task manager	Pass
2(2)	Zombie processes avoided	run program, exit program, then check task manager	no processes show up under program name	Pass
3	Enter 'E' returns translated characters	enter characters then E	show output with E then translated characters	Pass
4	'T' terminates the program after translation	enter some input, the T	program should translate input then exit	Pass but – does not carriage return to new line on translate
5	'X' erases a character from translated output	type some characters, then X	character immediately preceding X is removed	Pass
6	'K' deletes all characters typed before it on translation	type some characters, then K, then E	should only see characters typed after K in translated output	Pass
7	'cntl-K' terminates the program immediately	run program, optionally input text, hit cntl K	program exits without translating	Pass
8	'a' becomes 'z' in translation	type some a's, then E	all instances of a should be replaced with z	Pass

Screenshots

1 :

⚙ SystemSettings.exe	3816	Suspended	Juliana Fre...	00	12 K	Settings
🖿 tartareterm.exe	576	Running	Juliana Fre...	00	1,240 K	tartareterm.exe
🖿 tartareterm.exe	14292	Running	Juliana Fre...	00	1,240 K	tartareterm.exe
🖿 tartareterm.exe	7100	Running	Juliana Fre...	00	1,296 K	tartareterm.exe
🖿 taskhostw.exe	6024	Running	Juliana Fre...	00	2,524 K	Host Process for Windows Tasks

2 – with 'T'

```
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ ./tartareterm.exe
output pid: 13840
parent pid: 5344
translate pid: 1372
helloE
hello
goodbyeTgoodbye
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ |
```

⚙ SystemSettings.exe	3816	Suspended	Juliana Fre...	00	12 K	Settings
🖿 taskhostw.exe	6024	Running	Juliana Fre...	00	2,324 K	Host Process for Windows Tasks

2 – with 'cntl K'

```
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ ./tartareterm.exe
output pid: 576
translate pid: 14292
parent pid: 11480
abv
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ |
```

⚙ SystemSettings.exe	3816	Suspended	Juliana Fre...	00	12 K	Settings
🖿 taskhostw.exe	6024	Running	Juliana Fre...	00	2,524 K	Host Process for Windows Tasks

3 :

```
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ ./tartareterm.exe
abcdeE
zbcde
```

4 :

```
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ ./tartareterm.exe
abcTzbc
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ |
```

5 & 6 :

```
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ ./tartareterm.exe
abcdefXXE
zbcd
abcdefKaabE
zzb
```

7 :

```
Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ ./tartareterm.exe
abcdefXXE
zbcd
abcdefKaabE
zzb

Juliana French@hal /cygdrive/c/CST/datacomm/tartareterm
$ |
```

8 – shown in multiple screenshots above.