If we are going to turn this fragment of code into a program, we will need to include assembly overheads and data. One possible solution is:

```
ORG $400       Start of program
MOVE.B T,D0   Get the value of T
CMP.B #5,T    Is the value of T equal to 5
BNE Exit      If not then leave
MOVE.B #4,X   Else made X = 4
Exit STOP     #$2700  Exit point and termination for program

ORG $1000     Put data in here
T DC.B 3      Let’s make T = 3 on this run
X DC.B 20     Let’s make X = 20

END $400      Last line of prog and starting pt for execution
```