Assembly Language

Assembly language is:

- low-level programming language
- limited set of instructions
- used in embedded systems
- limited structures
- each instruction equates to one line of machine code (one CPU instruction)
- runs quickly and efficiently
- suitable for simple jobs in small systems

Assembly Code

```
MOVE R2, 0

MOVE R0, MEM8921

MOVE R1, MEM8922

CMP R1, 0      (IS R1=0? IF NOT DO THIS)

   ADD R2, R0, R2

   SUB R1, R1, 1



STORE MEM8923, R2

HALT
```

Note: you **don't** need to know the syntax of Assembly Code instructions, just the theory of how it works.

Assembly Code - 6x7

R0	R1	R2	