Assignment 2. MT2017510

The IT Instruction can be used to build an IF-THEN-ELSE block. This instruction can take up forms like ITTEE, ITTEE etc.

Note: The number of Ts & Es should be equal to number of consequential instructions to be executed

```
IT condition

Opcode1 // If the condition is true ,then Opcode1 is executed.

ITE condition

Opcode1

Opcode2 // If the condition is true ,then Opcode 1 is executed, else Opcode 2 executed.
```

The ELSE condition is always the inverse of THEN condition.

Note: The Opcodes that are related to the THEN should be consistent to "condition".

That are made consistent by keeping condition at the end of opcode and inverse condition at the end of ELSE related instructions' opcode.

The code is corrected simply by appending conditions to the opcode.

```
AREA Largest, CODE, READONLY
export __main
ENTRY
__main function

MOV R3, #0x100

MOV R8, #0x200

CMP R8, R3; do R8 - R3 & updated N & V flags
ITTTE LT; or N != V

MOVLT R3, #0x100

MOVLT R8, #0x200

MOVLT R7, #0x200

MOVGE R6, #0x200

stop B stop; stop program
```

endfunc

end

Here LT and GE are inverse to each other.