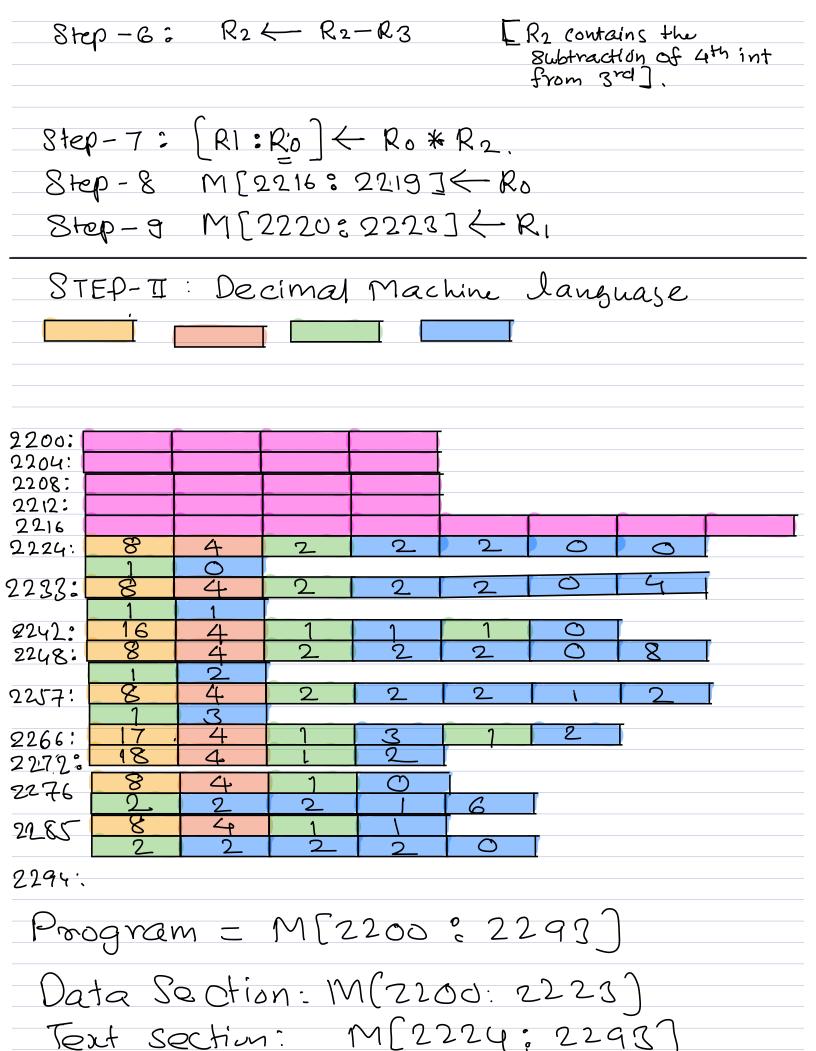
OPCODE SizE TYPE OF MUL SizE TYPE OPCODE # reg OF MUL Reg SizE TYPE OPCODE number Con stant OF MUL Constant TYPE OPCODE SizE # reg OF DIV Reg OPCODE SizE TYPE Const number ant OF DIN Constant ADD=16, SUB=17, MUL=18, DIV=19. $MI \times M2.$ 7, : 70 = result $\gamma_0 \leftarrow \gamma_1$ mul 1 (n2) L) upper -) lower 82 bits constant 82 bits of of result reg. result. / n2 or ? rol = result -) Quotient diul Cliul M2 constant (res.

Mul instruction.

Machine Language - PROGRAM - 2.
GOAL: RESERVE Storage for 5 integers.
- The fifth integer will store the final result
for the computation.
- You must take addition of first two integers.
- You must subtract integer 4 from integer 3
- You must take product/multiplication of
the result of addition & subtraction.
JUS = (INT) + IUT2)* (IUT3 - IUT4
Solution:
Stage-I:
Reserve storage for 5 integers.
M[2200:2203] = Integer-1 ()
M[2204:2207] = Integer-2 + 3
M[2208:2211] = Integer-3 (2)
M[2212:2215] = Integer-4
M[2216:2223] = Integen-5 4 @
Step-1: Ro (M[2200:2203]
8tep-2: R1 ← M[2204:2207]
Step-3: Ro - Ro + Ro [Ro contains the sum of first + + wo integers].
Step-4: R2 (- M[2208:2211]
8tep-53 R3 (- M[2212:2215]



Whichever number that you or
can be/must be stoned in M(2200:220)
Computer logic:
1) Develop logic of doing something
of data but properties of
data
Assembly lang.
$\mathcal{T}_{\mathcal{O}} \subset \mathcal{T}_{\mathcal{O}}$
7): N
add Mos 8.
just before add
Xx 100 012 500.

Inst after add
Jusi Sefar Rold: 11: = 500 just after gold: 11: = (000)
H 3100015
Assembly 1. Microprocesson
5 I Wes M.
Q+1
X+2
12+3
Address of, Size of current
current int Threaen

= Addr. o next interd Mtc 244 Tiesday Tom audio 5 mach_