# Rayat Shikshan Sanstha's

Name of the college : S.G.M. College, karad

Subject: Electronics

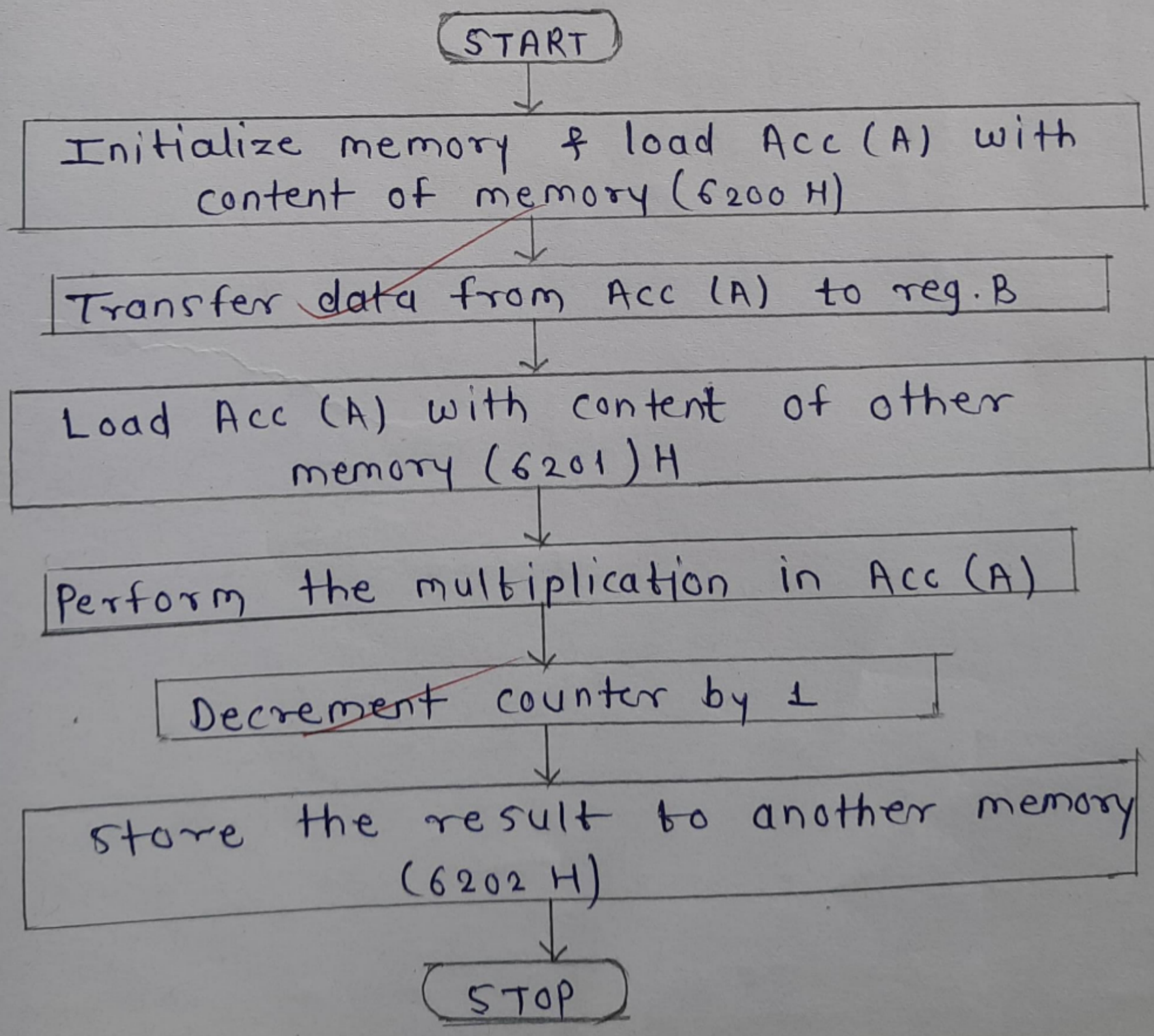
Expt. No. 8 | Name : [redacted] Class: BCS - II Batch: Roll No.: [redacted]

Date 03/10/2024 | Title of Expt.: Multiplication by using 8085 up

Aim :- Write ALP program on multiplication by repeated addition by using 8085 up.

Apparatus :- Power Supply, 8085 up kit, etc.

Flowchart :-




Remarks: C

Signature: 6/10/2024

Expt. No..... Date: / / 20

Program :-

| Memory Location | Mnemonic Code | Machine Code | Comment: |
|---|---|---|---|
| 6000H | LDA, 6200 H | 3A | Load Acc with content |
| 6001H | | 00 | in memory (6200) |
| 6002H | | 62 | |
| 6003H | MOV B, A | 47 | Move data from Acc to register B |
| 6004H | LDA 6201 H | 3A | load Acc. with content |
| 6005H | | 01 | in memory (6201) |
| 6006H | | 62 | |
| 6007H | MOV C, A | 4F | Move data from Acc to register C |
| 6008H | SUB, A | 97 | Subtraction in Acc. |
| 6009H | | 80 | Addition in reg. B |
| 600AH | | 0D | Decrement Counter by 1 |
| 600BH | INZ 6009H | C2 | Jump on target |
| 600CH | | 09 | |
| 600DH | | 60 | |
| 600EH | STA 6202H | 32 | store result in another |
| 600FH | | 02 | memory 6202 H |
| 6011H | | 62 | |
| 6012H | RST 1 | CF | STOP |

Result :-

| Memory location | Data |
|---|---|
| 6200H | 04 |
| 6201H | 02 |

| Memory location | Data |
|---|---|
| 6202 H | 08 |