Rayat Shikshan Sanstha's

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

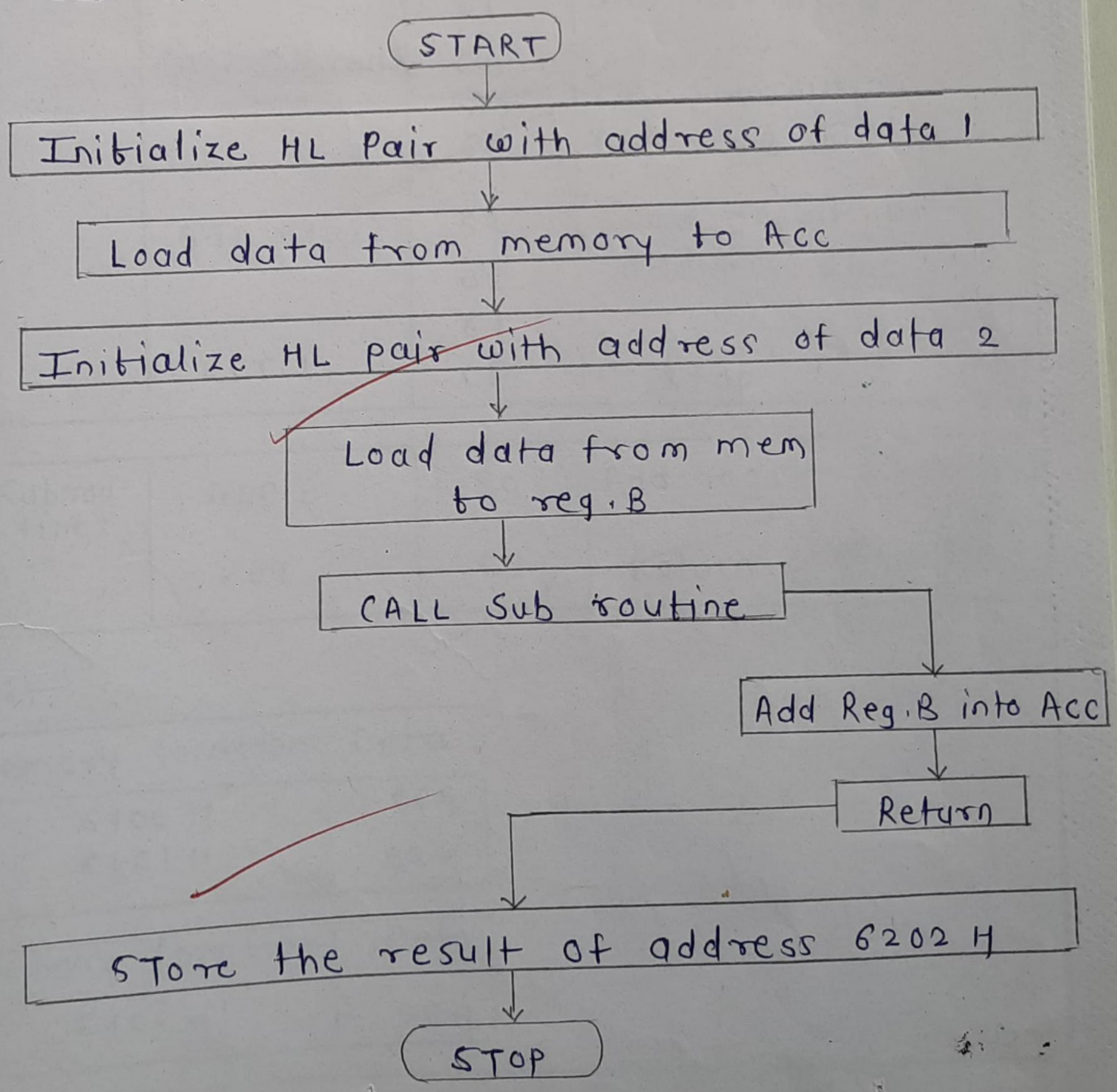
Subject: Electronics

Expt. No. 10 | Name : [redacted] Class: BCS-II Batch: Roll No.: [redacted]

Date 10/10/2024 | Title of Expt.: CALL & RET instruction in 8085 up

Aim :- Draw the flow chart & write the ALP program for addition of two numbers using CALL & RET instruction.

Flow Chart :-



Remarks: C

Signature: Dalwade 10/10/2024

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

Program :-

Memory Address	label	Mnemonic code	Machine Code	Comment
6000H	MAIN:	LXIH, 6100H	21	Load HL pair with
6001H			00	address data 6100H
6002H			61	
6003H		MOV A, M	7E	Move data memory to acc
6004H		LXIH, 6101H	21	Load HL pair
6005H			01	immediate with
6006H			61	address data 6101
6007H		CALL Subroutine	CD	
6008H			50	Call Subroutine
6009H			60	Add reg B into Acc
600AH		STA 6102	32	Store result at
600BH			02	address 6102
600CH			61	
600DH		RST 1	CF	Stop
6050H	Subroutine:	ADD B	80	Add register B into Acc
6051H		RET	C9	Return instruction

Result :-

Memory location	Data
6100H	06H
6101H	02H

Memory location	Data
6102H	08H