

LAB-4.

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Q) To check whether the 16 bit pattern is a palindrome or not.

data →	12	21
Memory →	2050	2051

If it is a ~~return~~ palindrome return 00H in 3000H, if not return FFH in 3000H

Solution:-

12 21
0001 0010 0000 0001

LDA 2050H

RLC

RLC

RLC

RLC

MOV B, A

LDA 2051H

CMP B

~~JNZ EXIT~~

~~JZ EXIT~~

JNZ EXIT

~~3000:~~ MVI A, 00H

STA 3000H

~~HLT~~

HLT

EXIT: MVI A, FFH

STA 3000H

HLT

{ if ~~A=B~~ B=A then CY=0, Z=1 }

 05/02/24.