**PROGRAMS**

1. **Write an ALP to find the compare two strings**

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| **ASSUME CS:CODE, DS:DATA**  **DATA SEGMENT**  **STR1 DB ‘CSE’**  **L1 DB 03H**  **STR2 DB ‘ECE’**  **L2 DB 03H**  **RES DB 0H**  **DATA ENDS**  **CODE SEGMENT**  **START:**  **MOV AX,DATA**  **MOV DS,AX**  **MOV ES,AX**  **LEA DI,STR1**  **LEA SI,STR2**  **MOV CL,L2**  **MOV DL, 0H**  **CMP CL,L1**  **JNZ EXIT**  **REP CMPSB**  **JNZ EXIT**  **MOV DL,01H**  **EXIT:**  **MOV RES,DL**  **INT 03H**  **CODE ENDS**  **END START** | **Result**  **Registers**    **Data Segment**    **Extra Segment** |

1. **Write an ALP to find the Length of a given string**

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| **ASSUME CS:CODE, DS:DATA**  **DATA SEGMENT**  **STR1 DB ‘CSEBATCH’,0**  **LEN DW 0H**  **DATA ENDS**  **CODE SEGMENT**  **START:**  **MOV AX,DATA**  **MOV DS,AX**  **MOV ES,AX,**  **MOV AX,0H**  **LEA DI,STR1**  **REPNE SCASB**  **DEC DI**  **MOV LEN,DI**  **INT 03H**  **CODE ENDS**  **END START** | **Result**  **Data Segment**    **Extra Segment** |

1. **Write an ALP to find whether the given byte is in the string or not**

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| --- | --- |
| **ASSUME CS:CODE, DS:DATA**  **DATA SEGMENT**  **STR1 DB ‘CSE’**  **L1 DB 03H**  **STR2 DB ’E’**  **RES DB 0H**  **DATA ENDS**  **CODE SEGMENT**  **START:**  **MOV AX, DATA**  **MOV DS, AX**  **MOV ES,AX**  **MOV DL,0H**  **LEA DI,STR1**  **MOV AL,STR2**  **MOV CL,L1**  **CLD**  **REPNE SCASB**  **JNZ EXIT**  **MOV DL,01H**  **EXIT:**  **MOV RES,DL**  **INT 03H**  **CODE ENDS**  **END START** | **Result**  **Registers**    **Data Segment**    **Extra Segment** |