Time allowed: 15 min   **Total marks: [2.5x4=10]**

Roll Number: _____   **Name: _____**

```
.MODEL SMALL
.STACK 300H
.DATA
STR1 DB 'DSF22$COAL'
STR2 DB 11 DUP('$')
.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS,AX
    MOV ES,AX
    LEA SI, STR1+9
    LEA DI, STR2
    MOV CX, 4
    STD
AGA:
      MOVSB
      ADD DI,2
      LOOP AGA
    CLD
    MOV CX, 6
    LEA SI, STR1
    REP MOVSB
    MOV DX,OFFSET STR2
    MOV AH,9
    INT 21H
    MOV AH,4CH
    INT 21H
MAIN ENDP
END MAIN
```

Q1: What will the output of the above code

LAOCDSF22

Q2: What is the value of SI and DI after the execution of the above code if the starting address of STR1 is 0100.

SI =__**0106**_____

DI =____**0114**_____

```
.MODEL SMALL
.STACK 300H
.DATA
STR1 DB 'PROGRAMMING'
STR2 DB 11 DUP('$')
.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS,AX
    MOV ES,AX

    LEA SI, STR1
    LEA DI, STR2
    MOV CX, 11
    CLD
AA:
    LODSB
    CMP AL, 'R'
    JE BB
    DEC SI
    MOVSB
BB:
    LOOP AA
    MOV DX, OFFSET STR2
    MOV AH,9
    INT 21H
    MOV AH,4CH
    INT 21H
MAIN ENDP
END MAIN
```

Q1: What will the output of the above code

POGAMMING

Q2: What is the value of SI and DI after the execution of the above code if the starting address of STR1 is 0100.

SI =__**010B**_____

DI =___**0114**_____