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

Roll Number: _____   **Name:** _____

```
.MODEL SMALL
.STACK 300H
.DATA
STR1 DB 'FCIT$DATA'
STR2 DB 11 DUP('$')
.CODE
MAIN PROC
   MOV AX,@DATA
   MOV DS,AX
   MOV ES,AX
   LEA SI, STR1+8
   LEA DI, STR2
   MOV CX, 4
   STD
AGA:
     MOVSB
     ADD DI,2
     LOOP AGA
   CLD
   MOV CX, 5
   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

ATADFCIT

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 =__**0105**_____

      DI =__**0112**_____

```
.MODEL SMALL
.STACK 300H
.DATA
STR1 DB 'COAL IS INTERESTING SUBJECT'
STR2 DB 19 DUP('$')
.CODE
MAIN PROC
   MOV AX,@DATA
   MOV DS,AX
   MOV ES,AX

   LEA SI, STR1+8
   LEA DI, STR2
   MOV CX, 19
   CLD
AA:
   LODSB
   CMP AL, 'T'
   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

INERESING SUBJEC

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 =_**011B**_____

      DI =_**012B**_____