**NAME: GINI CHACKO** 

**SEMESTER:** IV

**CLASS:** SE COMPS B

**BATCH:** B

**ROLL:** 8942

**TOPIC:** MP EXPERIMENT 6:

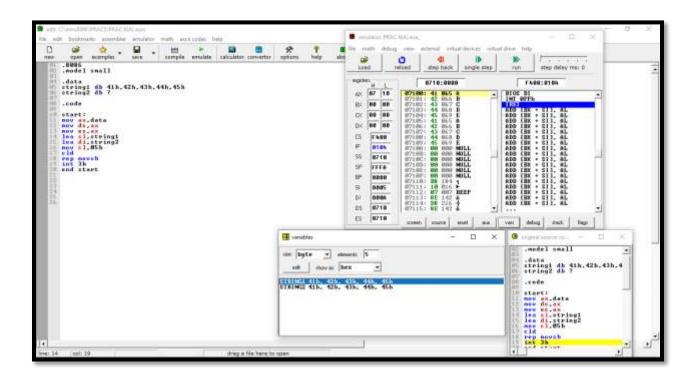
A.] Block transfer from source to destination

B.] Check whether it is palindrome or not

# A.] Block transfer from source to destination CODE:

```
.8086
.model small
.data
string1 db 41h,42h,43h,44h,45h
string2 db?
.code
start:
mov ax,data
mov ds,ax
mov es,ax
lea si, string1
lea di,string2
mov cl,05h
cld
rep movsb
int 3h
end start
```

#### **OUTPUT:**



## **B.**] Check whether it is palindrome or not

### **CODE:**

```
.8086
.model small
.data
w db "gini$"
s db "The string is pallindrome$"
e db "The string is not pallindrome$"
res db 00h
count db 00h
.code
start:
  mov ax, @data
  mov ds, ax
  lea si, w
  lea di, w
  mov bl, "$"
  mov cl, count
cnt:inc di
  inc cl
  cmp [di], bl
  jne cnt
  dec di
con:mov al, [si]
  mov ah, [di]
  cmp al, ah
  jne np
  inc si
  dec di
  cmp si, di
```

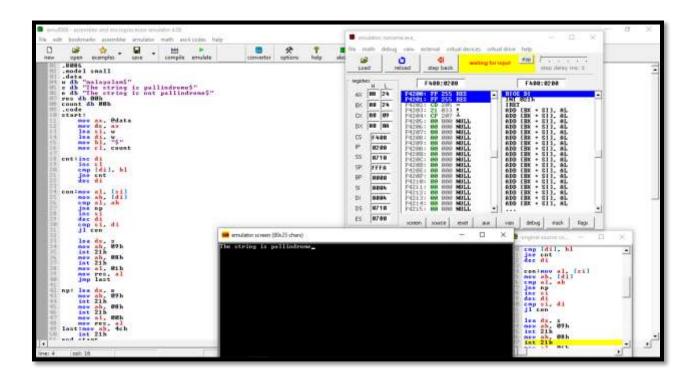
**GINI CHACKO 8942** 

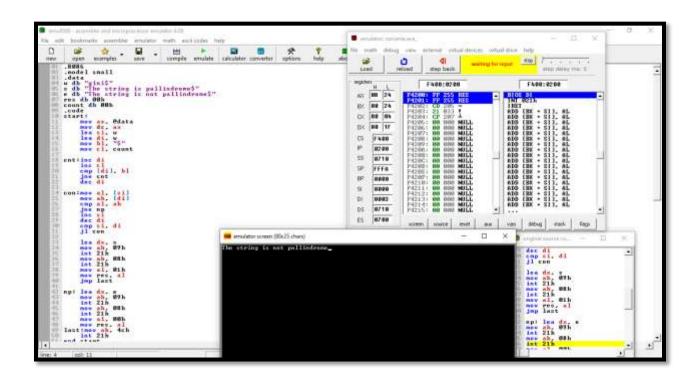
## jl con

lea dx, s mov ah, 09h int 21h mov ah, 08h int 21h mov al, 01h mov res, al jmp last

np: lea dx, e
mov ah, 09h
int 21h
mov ah, 08h
int 21h
mov al, 00h
mov res, al
last:mov ah, 4ch
int 21h
end start

#### **OUTPUT:**





## **POSTLAB QUESTIONS:**

#### 1. Explain any 5 string instructions with examples.

#### Ans:

String is a group of bytes/words and their memory is always allocated in a sequential order. String is either referred as byte string or word string.

| OPCODE | OPERAND     | EXPLANATION   | EXAMPLE      |
|--------|-------------|---|--------------|
| REP    | instruction | repeat the given instruction till CX != 0               | REP<br>MOVSB |
| REPE   | instruction | repeat the given instruction while CX = 0               | REPE         |
| REPZ   | instruction | repeat the given instruction while ZF = 1               | REPZ         |
| REPNE  | instruction | repeat the given instruction while CX != 0              | REPNE        |
| REPNZ  | instruction | repeat the given instruction while ZF = 0               | REPNZ        |
| MOVSB  | none        | moves contents of byte given by DS:SI into ES:DI        | MOVSB        |
| MOVSW  | none        | moves contents of word given by DS:SI into ES:DI        | MOVSW        |
| MOVD   | none        | moves contents of double word given by DS:SI into ES:DI | MOVD         |