Name: Nowshin Sumaiya

ID:21301276

Sec:05

Course:CSE341 Lab exam:06

## Answer to the question no:01

.MODEL SMALL .STACK 100H .DATA array1 DB "Nowshin"

#### .CODE

MAIN PROC MOV AX,@DATA MOV DS,AX

;code here MOV CX,7 MOV SI,0

# PUSH\_LOOP:

MOV AL, array1[SI] MOV AH,0 PUSH AX INC SI LOOP PUSH\_LOOP MOV AH,2 MOV CX,7

# PRINT\_LOOP:

POP DX

INT 21H

## LOOP PRINT\_LOOP

MAIN ENDP END MAIN

# Answer to the question no:02

```
.MODEL SMALL
.STACK 100H
.DATA

UserInput DW 5 DUP(?)

PalindromeMsg DB "Palindrome$", "$"

NotPalindromeMsg DB "Not a palindrome$", "$"
.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

LEA SI, UserInput

MOV AH, 1

MOV CX, 5
```

```
input_loop:
     INT 21H
     MOV [SI], AX
     INC SI
   LOOP input loop
   MOV AH, 2
   MOV DL, 0AH
   INT 21H
   MOV DL, 0DH
   INT 21H
MOV CX, 5
MOV SI, 0
PUS:
 MOV AX, UserInput[SI]
 MOV AH, 0
 PUSH AX
 INC SI
 LOOP PUS
MOV CX, 2
MOV SI, 0
CHECK:
 POP BX
 MOV DX, UserInput[SI]
 MOV DH, 0
 CMP BX, DX
 JE Palindrome
 JMP Not Palindrome
Palindrome:
 INC SI
```

## LOOP CHECK

LEA DX, PalindromeMsg MOV AH, 9 INT 21H

JMP EXIT

Not\_Palindrome:

LEA DX, NotPalindromeMsg MOV AH, 9 INT 21H

EXIT:

MAIN ENDP

**END MAIN**