Absamullah University of Science & Technology Department of

Computer Science and Engineering

Course No : CSE 2214

Course Title: Assembly Language Programming Sessional

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Group - C1

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Section - C

Question no:1

Write a pg program that lets the user input a string, prints it forward and backward without punctuation and blanks on successive lines, and decides wheather it is a palindrome and prints the conclusion

Answer:

- . MO DEL SMALL
- · STACK JOOH
- · DATA

FIRST DB 13,10, "ENTER A STRING: 5"

STR] DB 100 DUP (?)

STR2 DB 700 DUP (?)

FORWARD DB 13,19, "THE STRING IS: \$"

PAL DB 13,10, "IT IS A

PALINDROME . \$"

NONPAL DB 13,10, "IT IS NOT A PALINDROME.\$"

ERROR DB 13,10, "ERROR: EMPTY INPUT | \$" .CODE MAIN PROC

> MOU AX, @DATA MOU DS, AX MOU ES, AX

CLD

MOV AH,9 LEA DX, FIRST INT 21H

XOR CX,CX MOV AH,1 LEA S1,STR1

INPUT:

INT 21H

CMP AL, ODH

JE ENTER_PRESSED

CMP AL, 5BH

JE INPUT

CMP AL, 7DH

JE INPUT

JE JNPUT

CMP AL, 22H JE JNPJ

CMP AL, 27H JE INPUT

OMP AL, ''

CMP AL, 2DH JE JNPUT

CMP AL , 2EH JE INPUT

CMP AL, 3AH
JE INPUT

CMP AL, 3BH

JE INPUT

CMP AL,5F JE INPUT HOD, LA 9MD TUPUT JE

PUSH AX

INC CX

MON [S], AL

INC SI

TUPUT AME

ENTER_PRESSED:

CMP CXS JE ERROR

LEA DI, STR2 MOV BX, CX

REVERSE:

POP DX
MOV [D1], DL
INC DI
LOOR REVERSE

MOV AH9 LEA DX/STR1 INT 21H

LEA 51, STR1 LEA D1, STR2

MOV CX, BX

REPE CMPSW

JZ PALINPROME

MOV AH,9
LEA DX,NONPAL
INT 21H
JMP EXIT

PALINDROME:

MOV AH,9 LEA DX, PAL INT 21H

EXIT:

MOV AHJUCH INT 2H MAIN ENDP

END MAIN