

RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY LAB REPORT

RUET

Course No: CSE 3110

Course Name: Sessional based on CSE 3109

Submitted By:

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Algorithm

- → Input a string into a variable
- → Traverse the string characters and push it in the stack until it finds a space
- → If a space is found then pop the characters from the stack
- → Repeat step 2 and 3 until the string ends

Code

```
;reverse a string word by word ;show the consonant uppercase and vowels lower case
```

.MODEL SMALL

.STACK 100H

.DATA

MSG1 DW?

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV CX,0

MOV SI,0

MOV DI,0

MOV AH,1

L1:

INT 21H

CMP AL, ODH

JE L1_END

CMP AL,'A'

JE CHECK_VOWEL

CMP AL,'E'

JE CHECK_VOWEL

CMP AL,'I'

JE CHECK_VOWEL

CMP AL,'O'

JE CHECK_VOWEL

CMP AL,'U'

JE CHECK_VOWEL

MOV MSG1[SI],AX

INC SI

JMP L1

CHECK_VOWEL:

ADD AL,32

MOV MSG1[SI],AX

INC SI

JMP L1

L1_END:

MOV AH,2

MOV DL,0DH

INT 21H

MOV DL,0AH

INT 21H

```
L2:
  MOV BX,MSG1[DI]
  CMP BL,' '
  JE POP_START
  PUSH MSG1[DI]
  INC DI
  INC CX
  CMP DI,SI
  JE POP_START
  JMP L2
POP_START:
  MOV AH,2
  POP DX
  INT 21H
  LOOP POP_START
MOV AH,2
MOV DL,032
INT 21H
INC DI
CMP DI,SI
JG END_
```

JMP L2

END_:

END MAIN

OUTPUT

