Question 1

.MODEL SMALL

.STACK 100H

.DATA

A DB "Largest odd number:$"

B DB "Averasge of even numbers:$"

arr db 2,1,3,0,1,6,1,0

sum db 0

count db 0

max db -1

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

;code here

mov cx,8

mov si,0

adder:

mov al,arr[si]

mov bl,al ;temp

inc si

mov ah,0

mov bh,2

div bh

cmp ah,0

je even

jmp odd

even:

add sum,bl

inc count

jmp looper

odd:

cmp bl,max

jg odd\_up

jmp looper

odd\_up:

mov max,bl

looper:

loop adder

output:

LEA DX,A

mov ah,9

int 21h

mov dl,max

add dl,30h

mov ah,2

int 21h

;new line

Mov dl,0Ah

Mov ah,2

Int 21H

Mov dl,0Dh

Mov ah,2

Int 21H

LEA DX,B

mov ah,9

int 21h

average:

mov al,sum

mov ah,0

mov bh,count

div bh

mov dl,al

add dl,30h

mov ah,2

int 21h

exit:

MAIN ENDP

END MAIN

Question 2

.MODEL SMALL

.STACK 100H

.DATA

arr db 's','h','i','h','a','b', 'm', 'u', 'h','t','a','s','i','m'

;B a H i H S

vol db 'a','e','i','o','u'

temp db 5

hold db 0

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

;code here

mov cx,14

mov si,0

stacker:

mov bl,arr[si]

mov bh,0

push bx

inc si

loop stacker

mov al,0

poper:

inc hold

mov cx,5

mov si,0

pop dx

mov bl,4

mov bh,0

checker:

cmp vol[si],dl

je vowel

inc si

loop checker

sub dl,20h

Mov ah,2

Int 21H

jmp looper

vowel:

Mov ah,2

Int 21h

looper:

cmp hold,14

jg exit

jmp poper

exit:

MAIN ENDP

END MAIN