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***Roll no:***

***20p-0640***

***Section:***

***3-B***

***Lab report:***

***# 05***

Task # 1

[org 0x0100]

mov ax, 0

mov cx, 3

mov bx, num1

outerloop:

add ax, [bx]

add bx, 2

sub cx, 1

jnz outerloop

mov [result], ax

mov ax, 0x4c00

int 0x21

num1: *db* 5, 10, 15

result: *dw* 0

Task # 2

[org 0x0100]

jmp start

data: *dw* 6, 2, 4, 5

swap: *db* 0

start:

outerloop:

mov bx, 0

mov *byte* [swap], 0

innerloop:

mov ax, [data + bx]

cmp ax, [data + bx + 2]

jbe noswap

mov dx, [data + bx + 2]

mov [data + bx + 2], ax

mov [data + bx], dx

mov *byte* [swap], 1

noswap:

add bx, 2

cmp bx, 6

jne innerloop

cmp *byte* [swap], 1

je outerloop

mov ax, 0x4c00

int 0x21