

Alexandria University
Faculty of Engineering
Electrical Engineering Department
3rd year communications
EE345 - Microprocessors-1
24/12/2020



Emulator 8086

Task 1

Name: Mahmoud Fawzy Taha-Elaraby

Sec: 6

ID: 202

```
name "202_Assembly_Code"
```

```
org 100h
```

```
jmp start
```

```
m1:
```

```
nam db 'Name: Mahmoud Fawzy Taha-Elaraby'  
     db 0Dh,0Ah,'$'
```

```
set db "Seat Number: 202"  
     db 0Dh,0Ah,'$'
```

```
acd db "Academic ID: 162262"  
     db 0Dh,0Ah,'$'
```

```
start:
```

```
mov ah, 9  
mov dx, offset nam  
int 21h
```

```
mov ah, 9  
mov dx, offset set  
int 21h
```

```
mov ah, 9  
mov dx, offset acd  
int 21h
```

```
mov ah, 0  
int 16h
```

```
ret
```

```
edit: C:\emu8086\MySource\202_Assembly_Code.asm
file  edit  bookmarks  assembler  emulator  math  ascii codes  help

new  open  examples  save  compile  emulate  calculator

01
02  name "202_Assembly_Code"
03
04  org 100h
05
06  jmp start
07
08  m1:
09
10  nam db 'Name: Mahmoud Fawzy Taha-Elaraby'
11      db 0Dh,0Ah,'$'
12
13  set db "Seat Number: 202"
14      db 0Dh,0Ah,'$'
15
16  acd db "Academic ID: 162262"
17      db 0Dh,0Ah,'$'
18
19  start:
20
21  mov ah, 9
22  mov dx, offset nam
23  int 21h
24
25  mov ah, 9
26  mov dx, offset set
27  int 21h
28
29  mov ah, 9
30  mov dx, offset acd
31  int 21h
32
33  mov ah, 0
34  int 16h
35
36  ret
37
38
```

 emulator screen (80x25 chars)

```
Name: Mahmoud Fawzy Taha-Elaraby
Seat Number: 202
Academic ID: 162262
_
```