

LAB REPORT – 01



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Semester:

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Subject:

Computer Organization and Assembly Language

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Teacher:

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Lab Task # 01

Problem 1: "Hello,World!" Program.

Code:

```
.model small
.stack 100h
.data
    msg db 'Hello World!$'
.code
main proc
mov ax,@data
mov ds,ax
mov ah,09
mov dx,offset msg
int 21h
mov ah,4ch
int 21h
endp
end main
```

Output

Hello, World!



Lab Task # 02

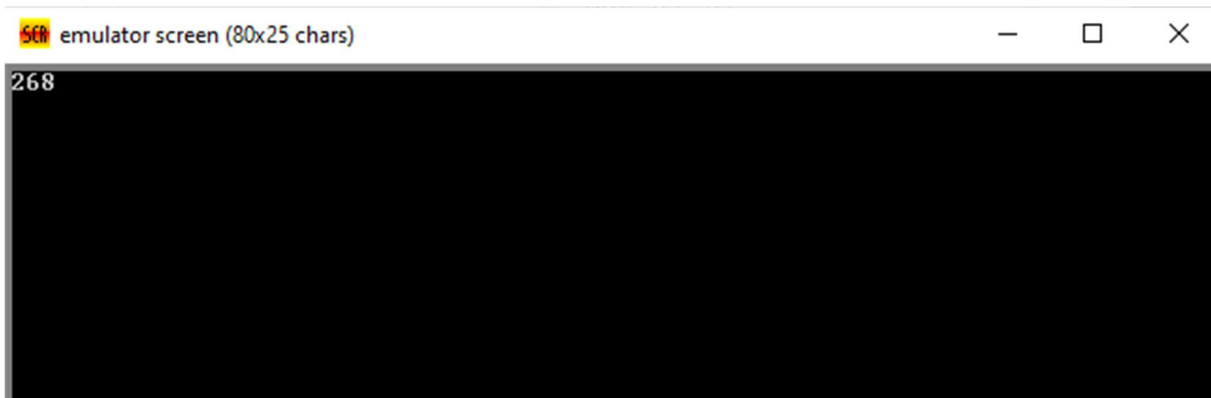
Problem 2: Addition of two single digit integers.

Code:

```
.model small
.stack 100h
.data
.code
main proc
mov ah,1
int 21h
mov bl,al
mov ah,1
int 21h
add bl,al
mov dl,bl
sub dl,48
mov ah,2
int 21h
mov ah,4ch
int 21h
endp
end main
```

Output

2+6 = 8



Lab Task # 03

Problem 3: Subtraction of two single digit integers.

Code:

```
.model small
.stack 100h
.data
.code
main proc
mov ah,1
int 21h
mov dl,al
mov ah,1
int 21h
sub dl,al
add dl,48
```

```
mov ah,2  
int 21h  
mov ah,4ch  
int 21h  
endp  
end main
```

Output

9-6 = 3



***** ***The End*** *****