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Lab Task 2

(Question 1)

```
.model small
```

```
.stack
```

```
.data
```

```
.code
```

```
main proc
```

```
mov dl,3    ;giving values
```

```
mov bl,5    ;Giving values
```

```
add dl,bl   ;Adding 3 and 5
```

```
mov ah,2    ;giving value
```

```
sub dl,ah    ;subtracting 8 and 2
```

```
mov bh,1    ;giving value
```

```
sub dl,bh    ;subtracting 6 and 1
```

```
add dl,48
```

```
mov ah,2
```

```
int 21h
```

```
mov ah,4ch
```

```
int 21h
```

```
main endp
```

```
end main
```

(Question 2)

```
.model small
```

```
.stack 100h
```

```
.data
```

```
var1 db 3    ; giving values to variable
```

```
var2 db 1    ; giving values to variable
```

```
var3 db 2    ; giving values to variable
```

```
.code
```

```
main proc
```

```
mov cx, @data    ;moving variables data in cx
```

```
mov ds, cx
```

```
add dl, var1     ;Adding values of variables
```

```
add dl, var2     ;Adding values of variables
```

```
add dl, var3     ;Adding values of variables
```

```
add dl, 48
```

```
mov ah, 2
```

```
int 21h
```

```
mov ah, 4ch
```

```
int 21h
```

```
main endp
```

```
end main
```

(Question 3)

```
.model small  
.stack 100h  
.data  
t1 db 'average is : $'  
.code
```

```
main proc
```

```
mov ax,@data
```

```
mov ds,ax
```

```
LEa dx,t1
```

```
mov ah,9
```

```
int 21h
```

```
mov ax,3
```

```
add ax,4
```

```
add ax,5
```

```
add ax,3
```

```
add ax,5
```

mov dl,5

div dl

add ax,48

mov dx,ax

mov ah, 2

int 21h

mov ah, 4ch

int 21h

main endp

end main