



# LAB 1

1. Find the errors in the following block of code

```
.MODEL ENORMOUS
.STACK
.CODE
.DATA
MAIN PROC FAR
    MOV AX,DATA
    MOV DS,@DATA
    MOV AL,34H
    ADD AL,4FH
    MOV DATA1,AL
START ENDP
END
```

2. State the difference between the following two instructions:

MOV BX,DATA1  
MOV BX,OFFSET DATA1

3. State the difference between the following two instructions:

ADD AX,BX  
ADD AX,[BX]

4. Write a program that adds 2 bytes of data and save the result. The data should be the following hex numbers: 52 and 29. Verify the addition result.

5. Write a program that add 5 bytes of data and save the result. The data should be the following hex numbers: 25, 12, 15, 1F and 2B. Verify the addition result.

6. Write a program that adds 4 words of data and save the result. The data should be the following hex numbers: 1DE6, 3BC7, 566A, and 234D. Verify the addition result.

7. Write a program that transfer 6 bytes of data from memory locations with offset of 0010H to memory locations with offset of 0028H