

Homework-1

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Question1:

Calculating sum of Two Numbers

; Adds two numbers at 50h & 60h and stores the result at 70h

```
org 0h
ljmp main
org 100h
```

; Assuming there already present some integers stored at 50h and 60h

```
main:
    mov A,50h
    add A,60h
    mov 70h,A
    here: sjmp here
END
```

Question2:

Calculate and Store partial Sums contiguously in memory

; Stores the partial sum into contiguous memory locations starting from 50h

```
org 0h
ljmp main
org 100h
```

; Assuming the N(<20) is already stored in 50h

```
main:
    mov r0,#50h
    mov r1,#00h
    mov B,#0
    loop:
        mov A,B
        inc r1
        add A,r1
        inc r0
        mov @r0,A
        mov B,A
        mov A,r1
        cjne A, 50h, loop
```

```
here: sjmp here
END
```