## **Lab Submission**

Q2. Write assembly code that performs the below C code:

where address of j begins at 0x20000004.

AREA RESET, DATA, READONLY

EXPORT \_\_Vectors

\_\_\_Vectors

DCD 0x20008000 ; initializ sp

DCD Reset\_Handler

**ALIGN** 

AREA mycode , Code , READONLY

**ENTRY** 

EXPORT Reset\_Handler

Reset\_Handler

LDR R0, =0X20000004

MOV R1,#0

MOV R2,#0

LOOP CMP R2, #15

**BGE Endwhile** 

ADD R1, R1, R2

ADD R2, R2, #1

**B LOOP** 

Endwhile STR R1, [R0]

**END**