**Assignment 2**

**Enrollment no.- 18114019**

Ques1.

mov cnt 0

mov I 1

.loop:

mov j i

mov k i

.loop1:

.loop2:

mul r1 j j

mul r2 r1 j

mul r3 k k

mul r4 r3 k

mov r5 0

add r5 r4 r2

cmp r5 i

beq.cntIncrease

sub k k 1

cmp k 0

bgt.loop2

sub j j 1

cmp j 0

bgt.loop1

cmp cnt 2

bgt.exit

add i i 1

.cntIncrease:

add cnt cnt 1

.exit:

exit