

# SIMPLE RISC for Ramanujan Number

mov r0, 1

mov r1, 0

mov r2, 0

mov r5, 0

.loop1

mul r3, r1, r1

mul r3, r3, r1

add r1, 1

.loop2

mul r4, r2, r2

mul r4, r4, r2

add r2, 1

add r3, r3, r4

cmp r3, r0

bgt .label1

.label1:

add r5, 1

cmp r5, 2

bgt exit

cmp r4, r0

blt .loop2

cmp r3, r0

blt .loop1

add r0, 1

.loop1

Result: output is stored in register r0.

Name:

Ardha Raghavendra  
Reddy

En. No:

18114011

CSE