Assignment 2 Pranav Singhal 18116062 O6

mov r3 1 // number considering as ramanujan number

```
.loop
1:
      mov r2 0 // counter for ramanujan number
      mov r2 1 mov r3 1 mov r4 0 mov r5 1
      mov r4
      r3 .loop2
            mov r5
            r3
            .loop3:
                   mul r2 r4 r4 mul r2
                   r2 r4 mul r2 r5 r5
                   mul r3 r3 r5 add r4
                   r3 r2 mul r5 r3 r3
                  mul r5 r5 r3 cmp R3
                   r5 beq
                   .incrementcounter
                   .incrementcounter:
     add r2 r2 1 sub r5 r5 1 cmp
        r5 0 bgt .loop3 sub r4 r4
         1 cmp r4 0 bgt .loop2
add r3 r3 1 cmp
r3 2 beq .found
 bgt .loop1 cmp
 2 r2 bgt .loop1
      .found:<sub>exit</sub>
```