

Assignment-2

Gr. V. Sai Kiran

18114026

```
mov r0,0
mov r1,0
mov r2,1
mov r3,1
mov r4,1
mov r5,0
mov r6,0
mov r7,0
```

.loop1:

```
mov r5,0
```

```
add r0,r0,r1
```

```
mov r1,0
```

.loop2:

```
add r1,r1,1
```

```
mul r3,r1,r1
```

```
mul r3,r1,r3
```

```
add r2,r1,1
```

```
cmp r3,r0
```

```
bgt.loop1
```

• loop3:

add r2, r2, 1

mul r4, r2, r2

mul r4, r2, r4

cmp r4, r0

bgt .loop2

add r6, r4, r3

cmp r6, r0

beq .label1

b .loop3

• label1:

add r5, r5, 1

cmp r5, 2

beq .label2

b .loop3

• label2:

mov r7, r0