

Muhammad Moiz

Cs192033

LAB TASK 02

CODE:

```
.data
```

```
msg: .ascii "\nInput marks\n"
```

```
msg1: .ascii "\nphysics\n"
```

```
msg2: .ascii "\nChemistry\n"
```

```
msg3: .ascii "\nMaths\n"
```

```
msg4: .ascii "\nEnglish\n"
```

```
msg5: .ascii "\nNew Total Out Of 800\n"
```

```
msg6: .ascii "\nOld total out of 400\n"
```

```
.text
```

```
li $v0,4
```

```
la $a0,msg
```

```
syscall
```

```
li $v0,4
```

```
la $a0,msg1
```

```
syscall
```

```
li $v0, 5
```

```
Syscall
```

```
move $t0 , $v0
```

```
mul $t0, $t0, 2
```

li \$v0,4

la \$a0,msg2

syscall

li \$v0, 5

Syscall

move \$t1 , \$v0

mul \$t1, \$t1, 2

li \$v0,4

la \$a0,msg3

syscall

li \$v0, 5

Syscall

move \$t2 , \$v0

mul \$t2, \$t2, 2

li \$v0,4

la \$a0,msg4

syscall

li \$v0, 5

Syscall

move \$t3 , \$v0

mul \$t3, \$t3, 2

add \$t4 , \$t0, \$t1

add \$t4 , \$t4, \$t2

add \$t4 , \$t4, \$t3

li \$v0, 1

syscall

move \$a0, \$t0

syscall

li \$v0, 1

syscall

move \$a0, \$t1

syscall

li \$v0, 1

syscall

move \$a0, \$t2

syscall

li \$v0, 1

syscall

move \$a0, \$t3

syscall

li \$v0,4

la \$a0,msg1

syscall

li \$v0,1

move \$a0, \$t0

syscall

li \$v0,4

la \$a0,msg2

syscall

li \$v0,1

move \$a0, \$t1

syscall

```
li $v0,4
la $a0,msg3
syscall
li $v0,1
move $a0, $t2
syscall
```

```
li $v0,4
la $a0,msg4
syscall
li $v0,1
move $a0, $t3
syscall
```

```
li $v0,4
la $a0,msg5
syscall
li $v0,1
move $a0, $t4
syscall
```

```
div $t4, $t4, 2
```

```
li $v0,4
la $a0,msg6
syscall
li $v0,1
move $a0, $t4
syscall
```

li \$v0, 10

syscall

RESULT:

E:\labtask.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Mars Messages Run I/O

Input marks

physics
95

Chemistry
90

Maths
87

English
86

268501036190190180180174174172

physics
190

Chemistry
180

Maths
174

English
172

New Total Out Of 800
716

Old total out of 400
358

-- program is finished running --

Clear

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x10010000
\$v0	2	0x0000000a
\$v1	3	0x00000000
\$a0	4	0x00000166
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x000000be
\$t1	9	0x000000b4
\$t2	10	0x000000ae
\$t3	11	0x000000ac
\$t4	12	0x00000166
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x004001a8
hi		0x00000000
lo		0x00000166