Question 1:

.data

msg: .asciiz "The grade of student is: "

msg1: .asciiz "Enter the percentage: "

msgA: .asciiz "A"

msgB: .asciiz "B"

msgC: .asciiz "C"

msgD: .asciiz "D"

msgE: .asciiz "E"

msgF: .asciiz "F"

.text

li $t0 , 90

li $t1 , 80

li $t2 , 70

li $t3 , 60

li $t4 , 40

li $v0 , 4

la $a0 , msg1

syscall

li $v0 , 5

syscall

move $s0,$v0

loopA:

blt $s0,$t0,loopB

li $v0, 4

la $a0, msg

syscall

li $v0, 4

la $a0, msgA

syscall

b loop

loopB:

blt $s0,$t1,loopC

li $v0, 4

la $a0, msg

syscall

li $v0, 4

la $a0, msgB

syscall

b loop

loopC:

blt $s0,$t2,loopD

li $v0, 4

la $a0, msg

syscall

li $v0, 4

la $a0, msgC

syscall

b loop

loopD:

blt $s0,$t3,loopE

li $v0, 4

la $a0, msg

syscall

li $v0, 4

la $a0, msgD

syscall

b loop

loopE:

blt $s0,$t4,loopF

li $v0, 4

la $a0, msg

syscall

li $v0, 4

la $a0, msgE

syscall

b loop

loopF:

li $v0, 4

la $a0, msg

syscall

li $v0, 4

la $a0, msgF

syscall

b loop

loop:

li $v0 , 10

syscall



Question 2:

.data

msg: .asciiz "The net profit is: "

.text

li $t1 , 100

li $t2 , 0

li $s0 , 300

li $t0 , 10

li $s1 , 20

mul $t3 , $t0 , $s0

mul $t3 , $t3 , $s1

div $t3,$t1

mflo $s1

add $t2,$t2,$s1

li $s0 , 50

li $t0 , 50

li $s1 , 50

mul $t3 , $t0 , $s0

mul $t3 , $t3 , $s1

div $t3,$t1

mflo $s1

add $t2,$t2,$s1

li $s0 , 20

li $t0 , 30

li $s1 , 60

mul $t3 , $t0 , $s0

mul $t3 , $t3 , $s1

div $t3,$t1

mflo $s1

add $t2,$t2,$s1

li $v0, 4

la $a0 ,msg

syscall

li $v0 , 1

la $a0 , ($t2)

syscall

li $v0 , 10

syscall



Question 3:

.data

msg: .asciiz "\n"

a: .double 2.5

b: .double 10.5

.text

l.d $f2 , a

l.d $f4 , b

add.d $f6 , $f2 , $f4

li $v0 , 3

mov.d $f12 , $f6

syscall

li $v0 , 4

la $a0 , msg

syscall

mul.d $f8 , $f2 , $f4

li $v0 , 3

mov.d $f12 , $f8

syscall

li $v0 , 4

la $a0 , msg

syscall

div.d $f10 , $f2 ,$f4

li $v0 , 3

mov.d $f12 , $f10

syscall

li $v0 , 4

la $a0 , msg

syscall

