Question 1:

```
.data
newline: .asciiz "\n"
prompt: .asciiz "Enter number: "
output: .asciiz "Output is: "
.text

print_prompt:
    la $a0, prompt
    li $v0, 4
    syscall
    jr      $ra
print_nl:
    li $v0, 4
    la $a0, newline
    syscall
    jr      $ra
print:
    li $v0 4
    la $a0 output
    syscall
    jr      $ra


main:
    jal print_prompt
    li $v0 5      #read one int
    syscall
    move $t1 $v0 #save first number

    jal print_prompt
    li $v0 5
    syscall
    move $t2 $v0 #save second number

    add $t0 $t1 $t2
    sll $t0 $t0 1

    mul $t3 $t1 $t2
    add $t0 $t0 $t3

    jal print
    move $a0 $t0
    li $v0 1
    syscall

    jal print_nl
    li $v0 10
    syscall
```

Question 2:
.data

```
.data
.text
main:

    li $t0 7 #y =7

    li $t1 2
    li $t2 4
    li $t3 6
    beq $t1 $s1 L1 //s1 means x
    beq $t2 $s1 L2
    beq $t3 $s1 L3
    j def

L1:
    addu $t0 $t0 4 #y+=4
L2:    li $t4 3
    add $t0 $t0 $t4 #y+=3
    j Exit          #break
L3:    li $t4 2
    add $t0 $t0 $t4 #y+=2
    j Exit          #break
def:    li $t4 1
    add $t0 $t0 $t4  #default y+=1
    j L1
    Exit

Exit:    li $v0 10 #exit
    Syscall
```

int foo(){
        }

Int foo(){
        Return 1;
}
$ra: 0x8020
$ip :
Int main(){
        Foo(); --àjal foo
}

Question 3:
```
    t0 =3
    t1 =2
    t2 = 8
    t3 = 0/undefined
    PC = 0x0
```