Each problem is worth 5 points.

1) Draw a flowchart corresponding to the pseudo-code given below.

Pseudo-code:

If(x == 4)
{
   x = x + 1
}
else
{
   x = x - 1
}
2) Write assembly code corresponding to the flowchart given below. Store i in register R6.

given:

.data
x: .space 2

 mov.w x0, R6

loop_label:

 cmp.w x9, R6
 jge if-break

 inc.w &x
 inc.w R6

 jmp loop_label

if-break:

 loop: jmp loop