

# PSET NUMBER

## Problem NUMBER-1

a) aligning equations:

$$f_1(n) = 1$$

$$f_2(n) = 2$$

$$f_3(n) = 3$$

$$f_4(n) = 4$$

$$f_5(n) = 5$$

b) gathering equations

$$f_1(n) = 1$$

$$f_2(n) = 2$$

$$f_3(n) = 3$$

$$f_4(n) = 4$$

$$f_5(n) = 5$$

## Problem NUMBER-2

a) include code:

b) casework:

*Case 1:* case 1  
this is case 1

*Case 2:* case 2  
this is case 2

c) theorems and proofs:

**Theorem:** this is a theorem

*Proof.* This is a proof

*Base Case:* This is a base case

*Inductive Step:* This is an inductive step

□