Group: 3

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Exercise 1:

$$a=3$$
i)  $f(1)=3$   $f(n-1)+n-1$   $(n>1)$ 

$$+(2) = +(2-1) \cdot 2 - 1 = 3 + 2 - 1 = 9$$
  
+(2) = 4

$$f(3)=f(3-1)+3-1=4+3-1=6$$
  
 $f(3)=6$ 

$$+(4) = +(4-1) + 4-1 = 6+4-1 = 9$$
  
 $+(4) = 9$ 

$$+(5) = +(5-1)+5-1 = 9+5-1 = 13$$
  
+(5) = 13

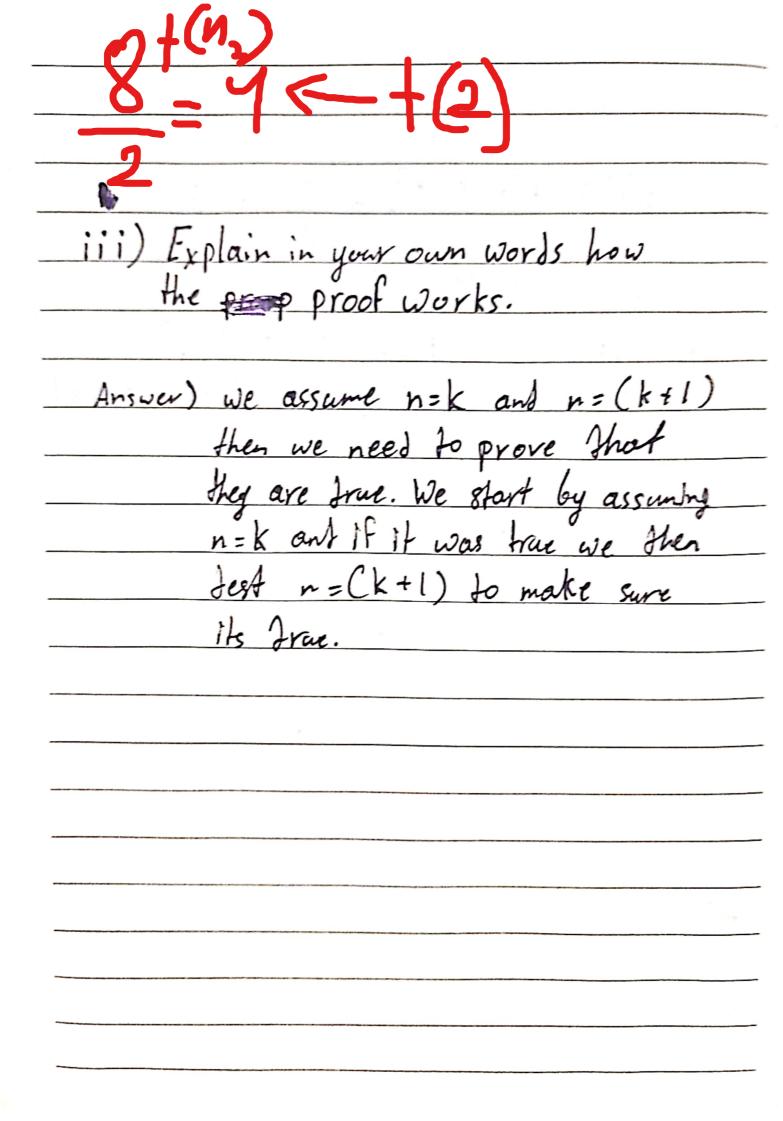
ii) 
$$+(n) = n^2 - n + 1 \cdot a$$

$$\frac{1}{1}(1) = \frac{1^{2} - 1 + 2 \cdot 3}{2} = \frac{3}{2}$$

$$\frac{1}{2}(2) = \frac{2^{2} - 2 + 2 \cdot 3}{2} = \frac{9}{2}$$

$$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2$$



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Home assignment 3	(Gifty EN	efa Akagli	ah, Ibrahim	1 Nidrawed	Anne-daine	Koch)
		, 0				
Function nicklas (n):						
if n = 1 then Nicklas < 1 if n = 2 then Nicklas < a						
The Address of the late of the				1-1-2). «		
1 1 N/	2 then	NIORION &	= a · NIM	las(n-2)+r		
nicklas (2+a) from main program.   a = 3						
COI	PY 1	Ce	PY 2	COP	y 3	
n	NICICIAS		NICKLAS		NI CKLAJ	
(2+a)	3. hold +5		3. hold + 3			
(2+3) n=5	3.6+5	n=3		$ \begin{array}{c} (3-2) \\ n = 4 \end{array} $		
	1 = (23)	11-5	1-00	11 - 2		
· We start by getting the n value and plugging in our a						
in nicklas (2+3) which is 5.						
 · Since ue connot solve, ne place Nicklas on hold and						
 calculate the next index (teem) by removing 2 due to						
 the Niddas (n-2) since n > 2 become this 5.						
 · The new value for n in 3; since 3 >2 he place · Nichlac						
on hold and repeat the step.						
 This time n = 1. we know that if n = 1 then						
Nichlas & 1, so me assign the value 1 to Nichlas.						
· he then plug in Nichlas's value to Copy 2 which results						
. We then plug in 6 for iopy 1 and that equals to						
23.						

