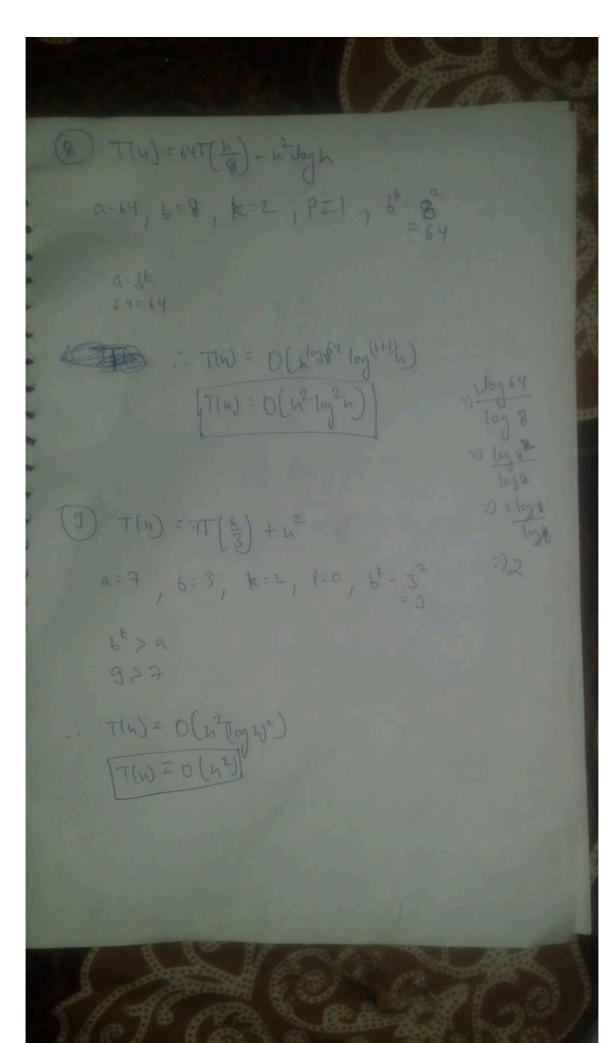
Assignment 53 1 int a=0,6=0; ____ constant fal (1=0; i<N; i+) a= a+ sald (); } -> (N+1) fal (j=0; j<M; j+t)

&=6+8ald(); time laughterity => O(n)
space laughterity => 6 (total 6 variables) (2) int a=0; - lowlant tal(1:0; i<N; i+) -> n { fed(j=N; j>1; j-+) n2 { h2 & a=a+i+j \$ time longitudy: 0 (n2)

fal (i= h; ik=h; it+) -> h for (j=2; j==h; j*2)-mdogh 4 K-K+5. time longhaity) O (nlogh) (4) Void Bunlinty fallist i=0; ich|2; it+) -> b= h Cal lintk=1; KSh; K+2) -> logh lout ce" Protect Jair"; time (amplexity =) O(n = logn)

50 Th) = 37 (1 3) + 1 2 a=3, 6=3, k=1, P=0, 6k=3. This o (alogo logn) TIND = O (nlogh) T(n) = 6T(h) + h logh a=6,6=3, k= 200, P=1, Bk= 3 = (T(n) = 0 (n2 log h) TI4) = 4T (1/2) + 1/2 / 1/4 a=4, b=2, k=1, P=-1, bk=21 assk : TIN) = O(hogy vog +1 h) => Tho = O (n) ho



(10) TIN = 4T (1/2) + log 1, 1 < 4 " TIW = O[h 10])