16	Camlin Page No. 48
Experiment Name / No.: 16	Date
HEAP SORT	
AIM	1-15:0
write a c program at impleme	ni nup
5 Noru.	
ALGOGITHM	
1. start	
2 Encer no. 06 elements	10000
30 Enter the elements, mourt into	may-
3.1 Set val = heap (i)	(0) (17/1
3.2 Bepur until 121 and heap (1)	2 J C 0001.
8.2.1 set neur (i) = heur (i/2)	
$3 \cdot 2 \cdot 2$ Set $i = i/2$	
15 3.3 ser herry i = val.	
4 pelen elements from heap, remaph	ng and
sorting until 10 = 1	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4.1 ser- par = 1, lebt = 2, right = 3 tem=	neapers
, last = heap(4)	
4.3 swap root and last	
4.3 swap root and last (= N	
4.4. 1 to near (right) (= hely	o (less)
4.4.1.1 swap heap(Per) and	(heur (1011)
25 9.4.1.2 sur pur = lebt-	Cracki
9.4.2 Ein swap wheap (PIT)	and he as of never
of the same of the	- cuff ragni
Teacher's Sign	ature:

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Experi		
	1. 1. 2.1 11. 11. 12. 12. 12. 12.	
	4.4.2.1 su per = right  4.4.3 set lest = 24 per right = lest +1	
	4.5 set binal heap (K) = uem	
5.	prin sour array	
6	NUP	
	CONCLUSION	
	The program has been escented correctly	
10	one output has been veribred	
15		
-		
20		
2		
	Teacher's Signature:	