

* Absignment No-11*

*Titler: program for find our maximum and minimum marks obtained in that bubject upe the heap.

Objective. 5:-

1) To Understand the Concept of heap. 2) To Understand features like heap, min, max

* problem statement:

Read the marks obtained by Student of beword year in an online examination. of parrialer subject find outmaximum marks obtained in that bubject. Use heap data structure Analyze the algorithm.

* learning outcome:-

1) Define closs of heap opp

2) Analyze working of function.

* 5/10 Requirement's

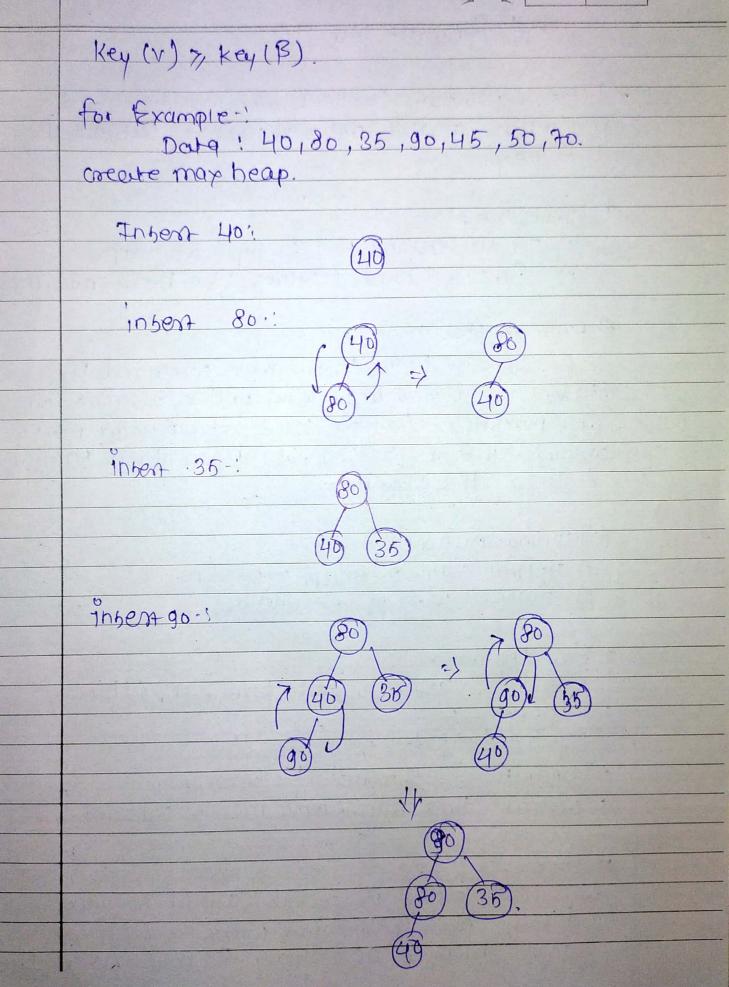
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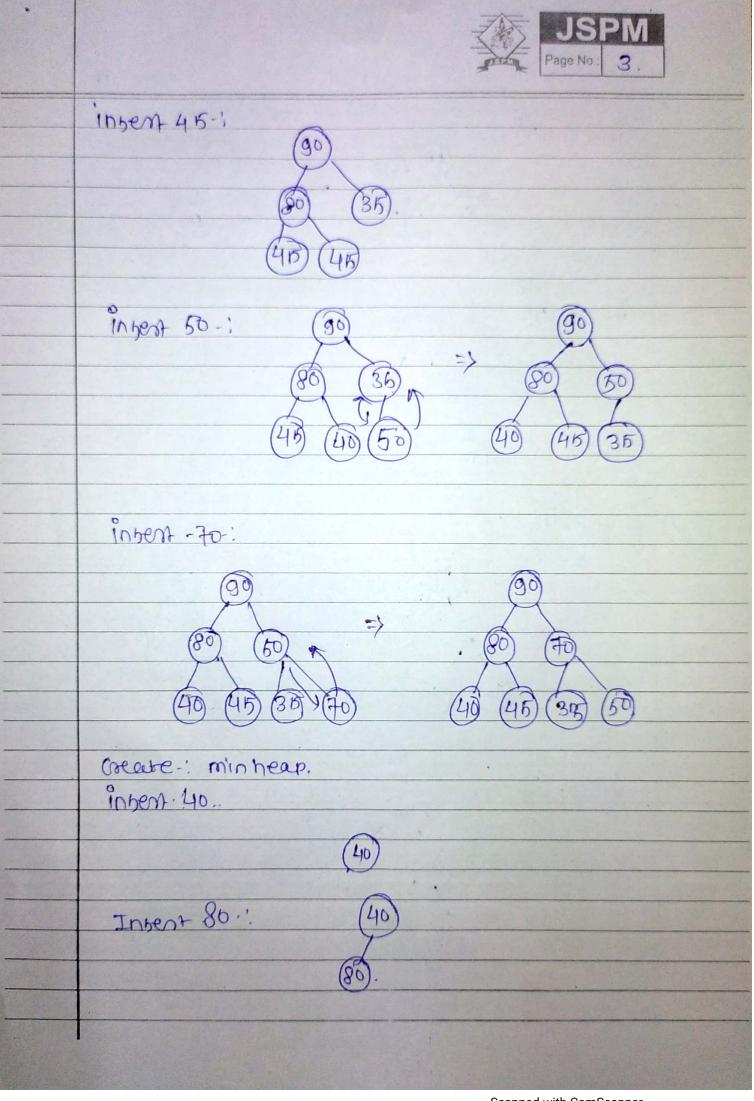
· Input maks obtended by bledent.

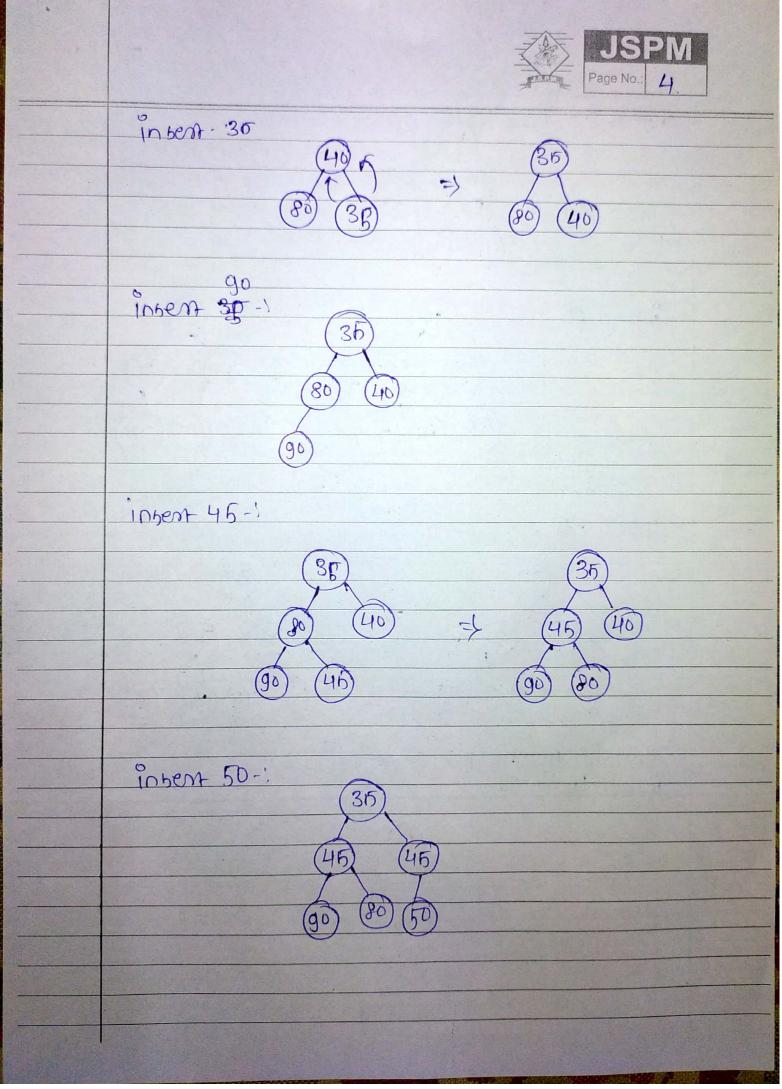
· oceput: And mind max marks obtained

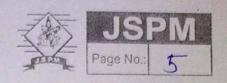
Heap is special Case of balance
binary here is compaired with its children
and arranged accordingly It has node then

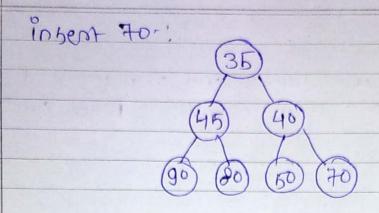












OMin heap construction Algorithm!

1) Orcabe anew node of the end of sheep

2) Abbign new youlve at end of beap

3) compare the Yalue of its childs note its

4) If the value of parent is less than child node

with its parent.

5) Repeat trep 3 f4 until heap property

6) It mean heap construction except value of parent node.

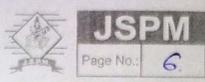
o Max heap deletion Algorithm !-

1) Persone the most.

2) Movie the least element of last level of

3) its parent compare the value of its child node.

H) If Value of parent is less than max heap deletion Repeat Step 3 & 4 until heap Property.



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* Conclusion :-
Hence we should and implemented the max heap & min heap using heap data structure.