## ADS LAB-10

=> Binomial Heap (Delat) :fundai delet (Node " h, int val) { if (! b) setur NUL; decreasines 13 Heap (L, val, Ent\_MIN); return extract Nhm Heary (b); fution cloweasethy BHeap (Node \* H, it allo, it new V) Node \* node = find hode (H, ollo); i) (! nab) sutu; Node - val = 10w v; Node \* point < node -> point; ulib (gover = NUL 18 rock - val & part - val) { swap trap (not -> val, parel -> val): Nade = fact; Parent = parent -> lavet; Justian extract Min Heap (wode \* h) if (1h) notur NULL;

Node \* min - prev = NUL;

leth

while (dury -> dibling !: NULL) if ((run -> riblig) -> val < min) { min = xcur > sibling - val; nin- 9100 = sauv; min - = Run - Sibling; com = cor - liblig; if (min - pres == NULL L& min -> tiblig == NULL) h= NULL; elle if (min-pres == NULL) ha min => liblig; else nin- frew => sibling = nin sibling;
if (nin -> dild) { herallit (nin - dill); min -> clild -> libling = NVLL; letur min BHoy (h. 100t). function find Node (wade \* h. int val) & if (! b) setur Nort; if (h -> val == val) letin h; Node + hu = find Node (In >clill, ral): if (he!=Nui) letur lus; exten find wode (h - libling, val); fuction govet dit (Node \* h) { if (has liblig) { eventle (h) siblig; h > siblig > siblig = h; } we nost = h;

All