

64,8,016,512,87,729,0 DADO with Merge cort will 1,343, 125 [6418, 216, 512, 89] and [789,0,1,343,125] Initial step !. further stop :-[6418] and [216, 5/2, 99] [929,0] and [1,343,125] Wesde :-Merge [60] and [8]-> [8,64] Morge [512,29] and -> [92], 512] Merge [07 and [729] -> [0,729] Final menge i Merge [8,27, 64, 916,512] and [0,1,125,343) -> [0,1,8,27,64,125,216,343,512,729] 729

noturi

2. Draw the concept map of the following in quick sort try to write on algorithm for it, which is as follows & develop a program consider. (102) stops :-- select the element at the highest index as the pivot. at set ' teft ' to the low index & night to the high index. * move 'left' right worlds and right reflucateds until left is greater than con equal to ' right' swapping elements as needed # Swap the proof with the flement at the lest pointen position * return the index of the proof. Program : Hirolode estdio. hs int arr[] = {64, 8, 216, 512, 27, 729); int main cof int no size of (array) / size of (array)

int low so; high = nol; while (low chigh) {

iot pivot = arr shight: int left - lows while (right >= low GE arr (right 30 phot)} if (left < right) { int temps arrs[left]; arr [left] = arr [right]: ari [right] = temp; left t+ Print ("rorted array"); for (int 150; 120; 14+): printf("1.d", arr(:7); print (" \n"); return o;

output to 0, 1,8, 27, 64, 125, 216, 343, 512, 729