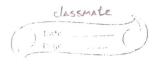
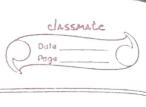
obloolou Week-6 Quick Sout therebude exteroins therebude exterious therebude exterious therebude exterious therebude exterious Vord quick exterious rat partition (lat ald, rat low, rat high); Vord main () { hat alronood, n.i.j., ch, temp;		classmate
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Julik Sout It include < stdio.h> It include < time.h> It include < stdib.h> Void quick - sout (int all, int low, int high); Int partition (int all, int low, int high); Void main () { int alisono), n, i, j, ch, temp;	06/06/24	Week-6
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ttenclude <tene oh=""> ##nclude <stalleboh> Word queck -xoxt(ent all, ent low, ent hegh); ent pasteron (ent all, ent low, ent high); Vord main() { ent alrono], n, i, j, ch, temp;</stalleboh></tene>		
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ent acrosson, n. i.j. ch. temp;		#Proclude < stallboh>
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ent acrossos, n. d.j. ch. temps		ent passisson lint ald, intlow, ent wight;
	i i	Vold mains f
0.000		Ent a[15000], n. d.j. ch, temp;
court start, end,		clocket start, end;
3 (1) 2/1/01		
pulat ("In: Fox manual Entry of N value and		pulat ("In: Fox manual Entry of N value and
array elements"):		
puint("M2: To display the taken pas southing		
number of elements N & range 500 to		,
(4500");		
ριζή(" \n3 : το exet");		
punty ("Enter your chorce:");		
scant ("ord", 4ch);		•
Switch(ch) {		
puration the number of elements: ");		
Scange of contract of contract of contract of		, v
prest ("Exter assay elements:");		•
parliso; ien; PAH) E		
; (C)20, ("") ("");		
scant va , talls,		scanft son, & attis
Start = clock();		
quick sout (a, o, n-1);		·
endz clocker;		
preaticin souted array es:");		,
puli=0; (cn; 1++) {		Parried, Ich, 184)



prentition of the dist print("InTime taken to sout od numbers is to for secs", n, (((double)(end-start))/(locks-persed); break: Case 2: N=500; while (n <= 145001 \$ puli=0; icn; 9++) { arij=n-1; Start = clocke(); queck_sout(a, o, n-1); jour; 00, 1<500000; 9+4) & temp= 38 600; end=clock(): puentil" in Time taken to sout 10 d numbers es 4.1 secs", n, (((double) cond-start))/clocks-pusce)) n=n+1000; break? case 3: ex14(0); getchazes 3 Upper to the wal the cost work they bear e, (low chequ) & Put prepartition (a, low, negu); queck- sout (a, low, pi-1);



quick-sout (a, pitt, kouphigh); Port partition (and as I got low, got high) & Rut proof = a [wight]; Put P= ((ow-1); parcent j'=100; jc=negh-1; f++) & 3 (+ovid > [130) 12 Et+3 : Cisasquet top : [i]a=[i]a alis tempi int temp= ality; :[Np2 = [1492 D a [magin] = temp; return (iti); output: 1. Fox manual entry of N value and away elements 2. To display time taken for souting number of elements N &n uarge 500 to 145000 3. To exit Enter your chocce: 1 tenter the number of elements: 8 Brtes array elements: 5, 3,1,9,8,2,4,2 Souted array 10:1, 2,3,4,5,67,8,9 Time taken to sout & numbers & 0.00 secs

2. To display time taken for souting number of elements Nin



3:10 exet Exten your chopies 2 Time taken to sout 500 numbers is 0.00 sees Time taken to sout 1500 0350 secs numbers & Time taken to sout 0.00 secs 2500 number Rs Time taken to sout 0.00 secs 3500 numbers es Time taken to sout 0.016 secs 4500 numbers es Time taken to sout 0.015 300 \$500 numbers (s Time 0.016 secs taken to sout 6500 numbers Ks Time 0.031 secs taken to sout 002F wanbers to Time taken to sout 8500 0.032 200 numbers is Time 0. OUBSECS taken to sout 0079 numbers as Time 6.out secs taken to sout 10500 numbers 6 0.83 secs TRME taken to sout 11500 numbers is Time 12500 numbers & 0,078 secs taken to sout 13500 numbers & 0.078 secs taken to sout Time 14500 numbers le 0.1090 secs Time taken to sout. 0.12-Quecle sout 0:1. 80.0 (0000 12000 14000 4000 2000 2000 6000 16000 values