| 120  | Lab-6   |
|--|---|
| 19   | Waite a peogram to do quick sort                                  |
| And the second second  | (008 = 1)   |
| Charles to the Control of the Contro | #include < stdio, h) ( (auzil -> a) olidar                        |
|  | #include <time. h=""> elic a &gt; 1 (0 e) log</time.>             |
|  | #include <stdlib.b< th=""></stdlib.b<>                            |
|  | #include < stdbool.h > () don't tolk                              |
|  | i((-a,0,0)t,sidner  |
|  | it main ()- { (1 = 000000 2 > 1 : 0 = 1) 200}                     |
|  | int a (15000), n. (1) j. ch; quat                                 |
|  | float temp: O dowle = by s  |
| 7 13   | clorek et stretzerd sitt me") fling                               |
|  | ( ode while (1) & (1) shats - see ) ( oddust)                     |
|  | printf ("In 1: For narual entry of +N value and array elements"); |
|  | printf ("112: To display time taken for sorting rumber of         |
|  | elements N is range 500 to 14500:1);                              |
|  | printly ('h3: Exit');   |
|  | printf ("In Enter your choire: (1) it in                          |
|  | sconf (" /d ", &ch); ideal  |
|  | switch (ch) {   |
|  | At: case2:-   |
|  | printf ("Exter number of elements:"); erant (""d", & n);          |
|  | V .   |
|  | for (int i=0: i <1; i+) {   |
|  | do reafil " /d" that [i]) in trook by bion                        |
|  | ?   |
|  | start = clock (); ? (April > well ) di                            |
|  | (dajunksortala, o, p-1)   |
|  | end-=ticlock(); was of translings                                 |
|  | prote ("sorted array is the)                                      |
|  | log (int ; = 0; i < n; i++)                                       |
|  | printf ("/d/t", a(i));  |
|  | prints ("Time taken to sort !d numbers is !f sees", n,            |
|  | ((double) (end-start)) / (LOCKS_PER_SEC);                         |
|  | brook -   |

case 2: 1 100 at a maring n = 500; while (n<= 14500) } < desible > shullente Por (i=0; i<n; i++) limite there aci]=n-i; (Adillete should to start = clock (1; ( ) frills > shul; quicksort (a, o, n-1); for (j=0; j < 50000000; j++) temp = 38 /600; [00021] 1 end = clock (); goest toold printf ("Time takes to doct "d numbers is "free", (Mouble) (end-start)) / CLOCKS\_PER.SEC); case 3: getchar (); void quicksort (int al ], int low, into high if (low < high) f (1) dont, = 100/2 int split point = partition (a, low, high); quick rost (a, low, split point - 11); quickent (a, split point+1, high); (Ctriste - but) (aldered)

3, To exit

|             | classmat | 1  |
|-------------|----------|--|
|             | Date     |  |
| 1           | Page     | 1  |
| La November |          | The same of the sa |

time of

|  | Fater your choice: 2                             | 1 Da ha) military le   |
|--|--|--|
|  | the second second second                         | ONLY.  |
| Was military and a single state of the same unity  | the serve description of the                     | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| THE RESERVE OF THE PROPERTY OF | Sorted array is: 1 2 3                           | and the state of the second section of the section of the second section of the section of |
| Carlo de Constante de Carlo de |  | and the same of th |
| gardeed Millianne (Spring) in consequence of Philosophys Resignation (spring) for the  | Estes unus choice: 2                             | 366 1511 0/3Am   |
|  | Enter your choice: 2<br>Time taken to sort 500 n | inhees is 0.031000 my  |
|  | 1500   | D 7 7 7000   |
|  | 25 00  | ( (3)2) 0:031000   |
|  | 3500   | 1.031000   |
|  | 4500   | 0.847000   |
|  | 5140   | ( caro 0,7,2000  |
|  | 65.0   | 0.031000   |
|  | 7500   | > (100) 01072000   |
| The state of   | 8500   | draid 0:047000   |
| A Control of the Cont | 9500   | 0-047000   |
|  |  | ((;)) = 0:093000   |
|  | 11500  | 0.044000   |
| nonina estado  | 12500  | 0.14(000   |
| ORDER OF STREET  | 13500  | 0-694000   |
|  | 14500  | · (;6).078 800.  |
|  | .45  | / :[i] = a[i].   |
|  |  | The state of the s |
| and the state of t |  | 1/12/ - 1. 1. 13   |
|  |  | .1.70 - 1 4 6  |
| Common co |  | W 17 Marie Ed  |
| The second secon |  | 5 ( Lund ) 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
|  | No.  | t quant = Constan  |
|  |  | i b acutas   |
| *  |  |  |
|  |  |  |
|  |  | · trytal   |
|  | charals union him when                           | 16 ustas Invaria 207 1   |
| 9-2-12   | W drawels in reducer or those 201                | and with unlasted of   |
| 3  |  | Activity of the second   |