```
main.c
       #include<stdio.h>
       #include<time.h>
        int main()
    5 * {
             int a[100],n,i,j,min,temp;
            clock_t start, end;
              printf("\n Enter the Number of Elements: ");
              scanf("%d",&n);
     11
     12
              printf("\n Enter %d Elements: ",n);
     13
               for(i=0;i<n;i++)</pre>
                   scanf("%d",&a[i]);
                start=clock();
for(i=0;i<800000000;i++);
for(i=0;i<n-1;i++)
                         if(a[min]>a[j])
```

Enter the Number of Elements: 4

Enter 4 Elements: 3 6 9 2

Time taken to sort 4 numbers is 1.452107 Secs
The Sorted array in ascending order: 2 3 6 9

...Program finished with exit code 0

Press ENTER to exit console.

```
#include< sidio. h>
Hinclude < Statib. h>
Hindlude < time. hs
void swap (int *a, int *b)
 9
 ent temp= *a;
 *a= *b;
 * b= temp;
  void selection sout (intaill7, inta)
  inti, i, min_idx;
 for (i=0; i<n=1; i+1)
   min-idx-i;
   (ttic nsi; ) ti=i) x ot
  If(aurij< aur (min-idx])
   min_id1=j;
   swapl Low (min-id), & au (i);
   int main () 1
   int n, i;
   double steat, end;
   Printf ("Enternember of elements: ");
```

```
Scanf (" 7.d", &n);
 int cos cuj;
 for (i=o;ikn;i++) 1
 ou cij=rand();
 Start = clock();
  Selection Sort (aux, n);
  end=(lock();
 foa(i = o; icn; itt)
   Print (" "IdIn", aus cis));
   4
   Print l'Time taken by selection sout for
   ·l·d elements: 1. Fln", n. (idaible) Cend.
      CLOCKS_PER_SEC) );
     leturno;
```