//08:program to perform selection sort

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
void selection()
{
   int i,j,n,a[10],t,min;
   printf("ENTER THE LIMIT\n");
   scanf("%d",&n);
   printf("ENTER %d ELEMENTS\n",n);
   for(i=0;i<n;i++)
      scanf("%d",&a[i]);
   for(i=0;i<n-1;i++)
   {
      min=i;
      for(j=i+1;j<n;j++)
      {
         if(a[j]<a[min])
            min=j;
      }
      t=a[i];
      a[i]=a[min];
      a[min]=t;
   }
   printf("THE SORTED ELEMENTS ARE\n");
   for(i=0;i<n;i++)
      printf("%d\t",a[i]);
}
int main()
```

```
{
   clock_t start,end;
   double t;
   start=clock();
   selection();
   end=clock();
   t=(double)(end-start)/CLOCKS_PER_SEC;
   printf("\nEXECUTION TIME : %f\n",t);
   return 0;
}
```

Output: