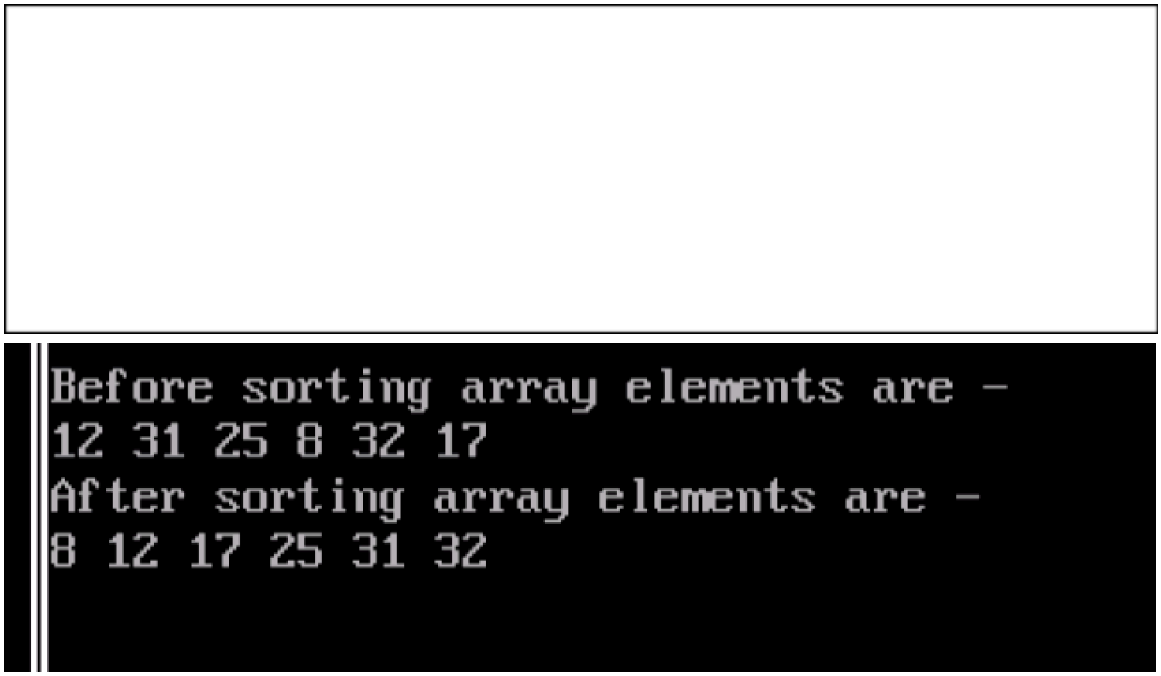
Name :- Nitish Anil Jha

Roll No. :- 18

Experiment No. 02

```
#include <stdio.h>
#include <conio.h>

void selection(int arr[], int n)
{
   int i, j, small;

   for (i = 0; i < n-1; i++)    // One by one move boundary of unsorted subarray
   {
      small = i; //minimum element in unsorted array

      for (j = i+1; j < n; j++)
      if (arr[j] < arr[small])
         small = j;
// Swap the minimum element with the first element
   int temp = arr[small];
   arr[small] = arr[i];
   arr[i] = temp;
   }
}
```

```
void printArr(int a[], int n) /* function to print the array */
{
   int i;
   for (i = 0; i < n; i++)
      printf("%d ", a[i]);
}

int main()
{
   int a[] = { 12, 31, 25, 8, 32, 17 };
   int n = sizeof(a) / sizeof(a[0]);
  clrscr();
   printf("Before sorting array elements are - \n");
   printArr(a, n);
   selection(a, n);
   printf("\nAfter sorting array elements are - \n");
   printArr(a, n);
   return 0;
}
```


Before sorting array elements are -
12 31 25 8 32 17
After sorting array elements are -
8 12 17 25 31 32