Code:-

```
#include<stdio.h>
  void selectionSort(int arr[], int size);
   int main(){
       int arr[] = \{30, 10, 50, 20, 40\};
       int size = sizeof(arr)/sizeof(arr[0]);
       printf("\nBefore Sorting: \n");
10
       for (int i = 0; i < size; i++) {
           printf("%d ", arr[i]);
12
            }
14
15
       selectionSort(arr, size);
16
       printf("\n\nAfter Sorting: \n");
       for (int i = 0; i < size; i++) {
18
           printf("%d ", arr[i]);
19
20
           }
21
22
23
       return 0;
24 }
26
27 void selectionSort(int arr[], int size){
       for(int i = 0; i < size - 1; i++){
28
29
           int min idx = i;
30
           int min_Val = arr[i];
31
           for (int j = i + 1; j < size; j++)
32
            {
                if(arr[j] < min_Val){</pre>
35
                    min_idx = j;
                    min_Val = arr[j];
37
                }
38
39
           arr[min_idx] = arr[i];
40
           arr[i] = min_Val;
41
42
43
44
       }
45
46 }
```

Output:-