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Subject:OOPCGL
Assignment No.:8
Code:
#include<iostream>
using namespace std;
template<class T>
void selection_sort(){
  int n;
  cout<<"Enter the number of elements in the
array\n";
  cin>>n;
  Tarr[n];
  cout<<"Enter the numbers\n";</pre>
```

```
for(int i=0;i<n;i++){
 cin>>arr[i];
 }
 //selection_sort
 for(int i=0;i<n-1;i++){
 int minimum=i;
 for(int j=i;j<n;j++){
 if(arr[minimum]>arr[j]){
 minimum=j;
 }
swap(arr[minimum],arr[i]);
}
 for(int i=0;i<n;i++){
 cout<<arr[i]<<" ";
```

```
}
int main(){
    int a;
cout<<"Enter the data type for which you want to
sort\n1)INTEGER \n2)FLOAT\n";
cin>>a;
  if(a==1){
    selection_sort<int>();
  }
  else if(a==2){
    selection_sort<float>();
  }
  return 0;
Output:
```

```
Enter the data type for which you want to sort

1) INTEGER
2)FLOAT

1
Enter the number of elements in the array

5
Enter the numbers

5
4
3
2
1
1 2 3 4 5
Process returned 0 (0x0) execution time: 8.549 s
Press any key to continue.
```