DHAKA UNIVERSITY OF ENGINEERING & TECHNOLOGY, GAZIPUR



Department of Computer Science and Engineering

Course No.: CSE-2112

Course Title: Object Oriented Programming Language Sessional

Exercise No: 02

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Submitted To:

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Problems No: 03

Problems Title: Write a C++ program (using function overloaded) to sort 4 integer values, or 4 long values, or 4 double values or 4 character values.

Solution:

```
#include<iostream>
#include <list>
using namespace std;
void userDefinedFunction(int,int,int,int);
void userDefinedFunction(long,long,long,long );
void userDefinedFunction(double,double,double,double,);
void userDefinedFunction(char,char,char,char);
int main()
{
  cout<<"*****Sort For Integer Value*******\n";
  userDefinedFunction(87,343,8,-10);
  cout<<"\n\n*****Sort For Long Value*******\n":
  userDefinedFunction(66554433,11223344,88776655,33445566);
  cout<<"\n\n******Sort For Double Value******\n";
  userDefinedFunction(20.09,12.76,-0.32,01.00);
  cout<<"\n\n*****Sort For Characters*******\n":
  userDefinedFunction('T','D','U','E');
  return 0;
}
void userDefinedFunction(int a,int b,int c,int d)
  list<int> mylist{ a, b, c, d };
  cout<<"Before Sorted For Integer"<<endl;
  for (auto it = mylist.begin(); it != mylist.end(); ++it)
    cout << ' ' << *it;
  cout<<"\nAfter Sorted For Integer"<<endl:
  mylist.sort();
  for (auto it = mylist.begin(); it != mylist.end(); ++it)
    cout << ' ' << *it;
void userDefinedFunction(long a,long b,long c,long d)
  list<long> mylist{ a, b, c, d };
  cout<<"Before Sorted For Long"<<endl;
  for (auto it = mylist.begin(); it != mylist.end(); ++it)
    cout << ' ' << *it;
  cout<<"\nAfter Sorted For Long"<<endl;
  mylist.sort();
  for (auto it = mylist.begin(); it != mylist.end(); ++it)
    cout << ' ' << *it:
void userDefinedFunction(double a,double b,double c,double d)
  list<double> mylist{ a, b, c, d };
  cout<<"Before Sorted For double"<<endl;
  for (auto it = mylist.begin(); it != mylist.end(); ++it)
    cout << ' ' << *it;
```

Output:

```
"C:\Users\shuvo\OneDrive - duet.ac.bd\DUET\CSE2-1\Lab\Programming\Lab 03\program_3.exe"
******Sort For Integer Value*******
Before Sorted For Integer
87 343 8 -10
After Sorted For Integer
-10 8 87 343
******Sort For Long Value*******
Before Sorted For Integer
66554433 11223344 88776655 33445566
After Sorted For Integer
11223344 33445566 66554433 88776655
******Sort For Double Value******
Before Sorted For double
20.09 12.76 -0.32 1
After Sorted For double
-0.32 1 12.76 20.09
******Sort For Characters*******
Before Sorted For char
TDUE
After Sorted For char
DETU
Process returned 0 (0x0)
                          execution time : 0.130 s
Press any key to continue.
```