**Institute of Engineering & Management**

**Department of Computer Science & Engineering**

**Programming Practices Using C++ Lab for 3rd year 5th semester 2018**

**Code: CS593**

**Date:** 30/08/18

**WEEK-5**

**Assignment-1**

**Problem Statement:** Create a class/struct student having record of name and roll no and then sort them in increasing order in terms of their alphabetical precedence in case the two names are same compare them in order of their roll no.

**Source code:**

#include<iostream>

#include<string>

#include<vector>

#include<algorithm>

struct student

{

int roll;

std::string name;

student()

{

roll = 0;

name = "NA";

}

student(inta,std::string b)

{

roll = a;

name = b;

}

};

structcustomsort

{

bool operator()(conststudent&a,conststudent&b)

{

if(a.name == b.name)

{

return (a.roll<b.roll);

}

else

{

return (a.name<b.name);

}

}

};

int main()

{

std::vector<student>vect;

student p1(20,"Rahul");

vect.push\_back(p1);

student p2(11,"Dhoni");

vect.push\_back(p2);

student p3(12,"Pujara");

vect.push\_back(p3);

student p4(13,"Vijay");

vect.push\_back(p4);

student p5(14,"Rahul");

vect.push\_back(p5);

student p6(15,"Kohli");

vect.push\_back(p6);

std::sort(vect.begin(),vect.end(),customsort());

for(auto i=0;i<vect.size();i++)

{

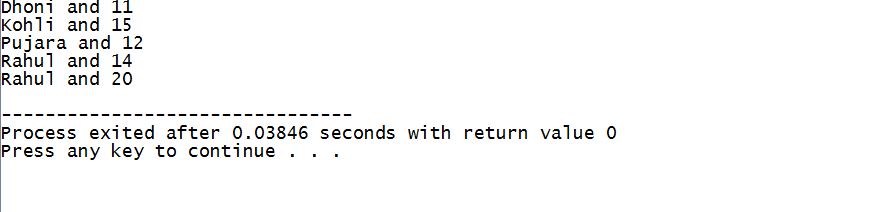
std::cout<<vect[i].name<<" and "<<vect[i].roll<<"\n";

}

return 0;

}

**Screen-Shot:**

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