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**Course:** Data Structures and Algorithms

**Code:**

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Enter the number of the students : ";

cin>>n;

string name[n];

int marks[n];

int keyMarks,j;

string keyName;

**//input**

for(int i=0;i<n;i++)

{

cout<<"\nEnter Student Name "<<i+1<<" : ";

cin>>name[i];

cout<<"Enter Marks "<<i+1<<" : ";

cin>>marks[i];

}

**//insertion sort**

for(int i=1;i<n;i++)

{

keyName =name[i];

keyMarks=marks[i];

j=i-1;

while(j>=0 && marks[j]<keyMarks)

{

name[j+1] = name[j];

marks[j+1] = marks[j];

j--;

}

name[j+1]=keyName;

marks[j+1]=keyMarks;

}

**//printing**

int s=0;

cout<<"\n\nStudent\t\tMarks\n";

for(int i=0;i<n;i++)

{

cout<<name[i]<<"\t\t"<<marks[i]<<endl;

s=s+marks[i];

}

float avg=s/n;

cout<<"\n\nHighest marks : "<<name[0]<<"\t"<<marks[0];

cout<<"\nLowest marks : "<<name[n-1]<<"\t"<<marks[n-1];

cout<<"\nAverage : "<<avg;

}