#include<stdio.h>

struct student

{

char name[30];

int rollno;

int sub[5];

int total;

};

int main()

{

int i, n, j,flag=0;

struct student st[20], temp;

printf("Enter number of students data you want to enter:\n");

scanf("%d",&n);

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

{

printf("Enter name of student %d\n",(i+1));

scanf("%s",st[i].name);

printf("Enter Roll No of student %d\n",(i+1));

scanf("%d",&st[i].rollno);

for(int z=0;z<=i;z++){

if(st[z].rollno==st[i].rollno && z!=i){

printf("\nRoll No already exist:\n Enter the details again");

flag=0;

break;

}

else{

flag=1;

}

}

if (flag==0){

i--;

continue;

}

else{

printf("Enter marks for 5 subjects of student %d\n",(i+1));

scanf("%d%d%d%d%d",&st[i].sub[0],&st[i].sub[1],&st[i].sub[2],&st[i].sub[3],&st[i].sub[4]);

printf("Data added Sucessfully");

st[i].total = (st[i].sub[0]+st[i].sub[1]+st[i].sub[2]+st[i].sub[3]+st[i].sub[4]);

printf("Total Marks of %d student = %d\n",(i+1), st[i].total);

}}

for(i=0;i < (n-1);i++)

{

for(j=0;j < (n-1);j++)

{

if(st[j].total < st[j+1].total)

{

temp = st[j];

st[j] = st[j+1];

st[j+1] = temp;

}

if(st[j].rollno == st[j+1].rollno)

{

return 0;

}

}

}

printf("\n\n\n\t\t\*\*\*\*\*\*Sorted in descending order\*\*\*\*\*\*");

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

{

printf("\nName of student: %s",st[i].name);

printf("\nRoll No of student: %d",st[i].rollno);

printf("\nTotal of student: %d\n",st[i].total);

}

}