***VOLOUME 10***

#include<stdio.h>

int main()

{

int number,subject;

**///\*\*\*\*\*\*\*this array for Grade points**

float student\_course[20][20];

**///\*\*\*\*\*\*variable for calculate cgpa**

float student\_cgpa[20];

**///this variable for maximum to minimum cgpa**

int max1,max2,max3,max4,max5,max6,max7,max8,max9,max10;

int location1,location2,location3,location4,location5,location6,location7,location8,location9,location10;

**///this variable is for loop**

int student,course,calculation,result,counter;

printf("How Many Student are you calculation cgpa\n");

scanf("%d",&number);

printf("How many Subject Per Student\n");

scanf("%d",&subject);

**///this loop is for student count**

for(student=0; student<number; student++)

{

**///this loop is for course count**

for(course=0; course<subject; course++)

{

printf("Enter %d student %d course\n",student+1,course+1);

scanf("%f",&student\_course[student][course]);

}

}

**///this loop is calculation cgpa**

for(calculation=0; calculation<number; calculation++)

{

for(student=0; student<number; student++)

{

student\_cgpa[student]=0;

for(course=0; course<subject; course++)

{

student\_cgpa[student]=student\_cgpa[student]+student\_course[student][course]\*3;

}

student\_cgpa[student]=student\_cgpa[student]/(float)(subject\*3);

}

}

**///printout 10 student cgpa with array and loop**

for(result=0; result<number; result++)

{

printf("%d Student CGPA is %.2f\n",result+1,student\_cgpa[result]);

}

**///1st maximum cgpa find**

max1=student\_cgpa[0];

location1=1;

if(student\_cgpa[1]>max1)

{

max1=student\_cgpa[1];

location1=1+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[2]>max1)

{

max1=student\_cgpa[2];

location1=2+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[3]>max1)

{

max1=student\_cgpa[3];

location1=3+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[4]>max1)

{

max1=student\_cgpa[4];

location1=4+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[5]>max1)

{

max1=student\_cgpa[5];

location1=5+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[6]>max1)

{

max1=student\_cgpa[6];

location1=6+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[7]>max1)

{

max1=student\_cgpa[7];

location1=7+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else if(student\_cgpa[8]>max1)

{

max1=student\_cgpa[8];

location1=8+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

else{

max1=student\_cgpa[9];

location1=9+1;

printf("maximum is %d student cgpa %.2f\n",location1,max1);

}

for(counter=0; counter<student-1; counter++)

{

student\_cgpa[counter]=student\_cgpa[counter+1];

}

**///2nd maximum find**

max2=student\_cgpa[0];

location2=1;

if(student\_cgpa[1]>max2)

{

max2=student\_cgpa[1];

location2=1+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else if(student\_cgpa[2]>max2)

{

max2=student\_cgpa[2];

location2=2+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else if(student\_cgpa[3]>max2)

{

max2=student\_cgpa[3];

location2=3+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else if(student\_cgpa[4]>max2)

{

max2=student\_cgpa[4];

location2=4+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else if(student\_cgpa[5]>max2)

{

max2=student\_cgpa[5];

location2=5+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else if(student\_cgpa[6]>max2)

{

max2=student\_cgpa[6];

location2=6+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else if(student\_cgpa[7]>max2)

{

max2=student\_cgpa[7];

location2=7+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

else{

max2=student\_cgpa[8];

location2=8+1;

printf("2nd maximum is %d student cgpa %.2f\n",location2,max2);

}

for(counter=0; counter<student-2; counter++)

{

student\_cgpa[counter]=student\_cgpa[counter+1];

}

return 0;

}