**PROGRAMS : to display percentage and grade of student using namespace defined in an external** 

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**grade.h**

#include<iostream>

using namespace std;

namespace grade

{

int percentage(int marks[],int n){

float sum=0,percen;

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

sum=sum+marks[i];

percen=sum/n;

return percen;

}

void gradeofstudent(float percen){

if(percen>=70.0){

cout<<"Percentage is = "<<percen<<"and the grade is A"<<endl;

}

else if(percen<70.0 && percen>=60.0){

cout<<"Percentage is = "<<percen<<"and the grade is B"<<endl;

}

else if(percen>=40 && percen<60){

cout<<"Percentage is = "<<percen<<"and the grade is C"<<endl;

}

else{

cout<<"Percentage is = "<<percen<<"and the grade is F"<<endl;

}}}

**program17.cpp**

#include<iostream>

#include "grade.h"

using namespace std;

using namespace grade;

int main(){

int marks[3];

float percen;

cout<<"Enter the 3 subject marks in the console \n";

for (int i=0;i<3;i++){

cin>>marks[i];

}

percen=percentage(marks,3);

gradeofstudent(percen);

return 0;

}

Input:

58

87

65

Output:

