main()

*gradeInput*()

static gradeInput()

Scanner

Display🡪Welcome To The Grading System

Prompt🡪How many students

Student🡨scan

int exams🡨0;

// declare 2d array and use variables in the initialization

int[][] array = new int[student][exams]

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

Display🡪(Student + (i + 1))

Display🡪How many exams for student?

Exams🡨scan

array[i] = new int[exams]

for(j=0;j<exams;j++) {

Display🡪("Grade Input " + j + ": ")

array[i][j]🡨scan

Display🡪(array[i][j] + " ")

//pass grades to menuSystem

*menuSystem*(array)

static studentGrades(array)

for(i=0;i<array.length;i++)

Display🡪("Student " + (i + 1))

for (j=0;j<array[i].length;j++)

Display🡪("Grades: " +array[i][j] + " ")

Static getGrade(array)

Display🡪("Enter student you want: ")

int student🡨scan

student -= 1;//offset user input

Display🡪("Enter exam you wish to see")

int exam🡨scan

exam -= 1; //offset user input

int getGrade = array[student][exam]

System.***out***.println(getGrade);

*menuSystem*(array)

static getAvg(array)

int sum = 0;

double avg = 0.0;

for(i=0;i<array.length;i++)

Display🡪("Enter student:")

int student🡨scan

set i to the student that the users is looking for

i🡨scan

for(j=0;j<array[i].length;j++)

sum += array[i][j]

avg = sum / array[i].length

Display🡪("Student " + i + " sum = " + sum + " Average = " + avg)

Sum🡨0

Static columnAverage(array)

sum🡨0

user🡨0

avg🡨0.0

for(i=0;i<array.length;i++) {

if(i == 0)

Display🡪("Enter exam:")

User🡨scan

user -= 1;//offset user

for(j=0;j<array[i].length;j++)

j = user;

sum += array[i][j];

avg = sum / array.length;

j=array[i].length;

Display🡪("The Average of exams are: " +avg)

*menuSystem*(array)

static classAverage(array)

Display🡪("Your class Average is:")

int sum🡨0

for(int[] i:array)

for(int j: i)

sum +=j

avg = sum / array.length;

System.***out***.println(avg);

*menuSystem*(array);

static menuSystem(array)

boolean stop = false;

int end = -1;

Display("Menu Options:"

+ "1. View Student Grades\n"

+ "2. Get a Student Grade\n"

+ "3. Exams Average\n"

+ "4. Class Average\n"

+ "5. QUIT\n"

)

User🡨scan

do

switch(user) {

case 1: Display🡪("View Student Grades")

*studentGrades*(array)

*repeat*(array)

break

case 2: Display🡪("Get a Student Grade")

*getGrade*(array)

break

case 3: Display🡪("Exams Average")

*columnAverage*(array)

break

case 4: Display🡪("Class Average")

*classAverage*(array)

break

case 5:

stop = false

break

default:

*repeat*(array)

while(!stop)

static repeat(array)

*menuSystem*(array)