**Solution Lab 11**

**import** java.util.Scanner;

**public** **class** CourseManager1 {

**public** **static** **void** main(String[] args) {

Scanner input = **new** Scanner(System.***in***);

System.***out***.print("Enter number of students: ");

**int** numOfStudents = input.nextInt();

**while** (numOfStudents < 1){

System.***out***.print("Number of students is invalid. Enter number of students: ");

numOfStudents = input.nextInt();

}

**double**[] scores = **new** **double**[numOfStudents];

System.***out***.print("Please enter students' scores: ");

**for** (**int** i = 0; i < scores.length; i++){

**double** score = input.nextDouble();

**if** (score >= 0 && score <= 100){

scores[i] = score;

}

**else** {

System.***out***.println("The score " + score + " you entered is wrong. Program will store score 0.");

}

}

System.***out***.print("The scores are: ");

**for** (**int** i = 0; i < scores.length; i++){

System.***out***.print(scores[i] + " ");

}

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

}

}

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**import** java.util.Scanner;

**public** **class** CourseMan2 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Scanner input = **new** Scanner(System.***in***);

System.***out***.println("Enter number of students");

**int** numofstudents = input.nextInt();

**while**(numofstudents<1){

System.***out***.println("Number of students are invalid, please enter >0");

numofstudents = input.nextInt();

}

**double** scores[] = **new** **double** [numofstudents];

System.***out***.println("Please enter student score:");

**for** (**int** i=0; i<scores.length; i++){

**double** score= input.nextDouble();

**if**(score>=0 && score<=100){

scores[i]=score;

}

**else**

{

System.***out***.println("The score" +score+ "you enetered is wrong. program will store score as 0");

}

}

**char**[] grades = *scoreToGrade*(scores);

System.***out***.println("The scores/grades are ");

**for**(**int** i=0;i<scores.length; i++){

System.***out***.println(scores[i] +"/" +grades[i] + "");

}

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

}

**public** **static** **char** [] scoreToGrade (**double** scores[]){

**char** grades []= **new** **char**[scores.length];

**for**(**int** i=0; i<scores.length; i++){

**if**(scores[i]>=90)

grades[i] = 'A';

**else** **if**(scores[i]>=80)

grades[i] = 'B';

**else** **if**(scores[i]>=70)

grades[i] = 'C';

**else** **if**(scores[i]>=60)

grades[i] = 'D';

**else**

grades[i] = 'F';

}

**return** grades;

}

}