**Exercise**

Write a program which reads an exam result (eg 67) and determines its grade and prints on screen.

**Test Data**

55, 99

**Source Code**

**import** java.util.Scanner;

**public** **class** ExamGrade {

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

 // Ray O'Connor - Income Tax prog

 String Grade;

 System.***out***.println("Enter exam result eg 67");

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

 **int** ExamResult=InputData.nextInt();

 **if** (ExamResult < 50) {

 Grade="Unsuccessful";

 System.***out***.println("Grade = " + Grade);

 }

 **else** **if** ((ExamResult>49 && ExamResult <65)) {

 Grade="Pass";

 System.***out***.println("Grade = " + Grade);

 }

 **else** **if** ((ExamResult>64 && ExamResult <80)) {

 Grade="Merit";

 System.***out***.println("Grade = " + Grade);

 }

 **else** {

 Grade="Distinction";

 System.***out***.println("Grade = " + Grade);

 }

 }

}

**Efficient Code**

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

 // Ray O'Connor - Income Tax prog

 String Grade;

 System.***out***.println("Enter exam result eg 67");

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

 **int** ExamResult=InputData.nextInt();

 **if** (ExamResult < 50) {

 Grade="Unsuccessful";

 }

 **else** **if** ((ExamResult>49 && ExamResult <65)) {

 Grade="Pass";

 }

 **else** **if** ((ExamResult>64 && ExamResult <80)) {

 Grade="Merit";

 }

 **else** {

 Grade="Distinction";

 }

 System.***out***.println("Grade = " + Grade);

 }

}