

## STUDENT ACTIVITY REPORT

(학생 활동 보고서)

<b>Document Type</b> (문서 유형)					
Category		Practice Document	х	Mission Document	
		Final Document		Revision Document	
Course Description (프로젝트 마일스톤)					
Course Name		Fundamental Oracle		Database SQL Server	
	х	Java Programming		C# Programming	



```
Student Mission
(학생 임무)
                                 Student Name
                                                    Faridhatul Zikri
                                                                                                          Mission No:
Identity
                                                                                                                              1
Code
                                Link Video: <a href="https://youtu.be/FfANPvGKpLq">https://youtu.be/FfANPvGKpLq</a>
                                Struktur penyusunan program
                                Java_Mission_1_NIM/
                                  — src/
                                   └─ com/
                                     └— Igcns/
                                        └─ mission/
                                          --- student/
                                             --- Student.java
                                             └─ ScoreTest.java
                                             – util/
                                            └─ MissionUtil.java
                                Student.java
                                package com.lgcns.mission.student;
                                public class Student {
                                  private String id;
                                  private int java;
                                  private int sql;
                                  private int math;
                                  private int chinese;
                                  private int rank;
                                  public Student(String id) {
                                    this.id = id;
                                  public void setScores(int java, int sql, int math, int chinese) {
                                    this.java = java;
                                    this.sql = sql;
                                    this.math = math;
                                    this.chinese = chinese;
                                  public double calculateAverage() {
                                    return (java + sql + math + chinese) / 4.0;
                                  public void printScoreInfo() {
                                    System.out.println("ID Siswa: " + id);
                                    System.out.println("Nilai Java: " + java);
```

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System.out.println("Nilai SQL: " + sql);
    System.out.println("Nilai Matematika: " + math);
    System.out.println("Nilai Bahasa Mandarin: " + chinese);
    System.out.println("Nilai rata-rata: " + String.format("%.2f", calculateAverage()));
 public String getId() {
    return id;
 public void setId(String id) {
    this.id = id;
 public int getRank() {
    return rank;
 public void setRank(int rank) {
    this.rank = rank;
 // Getter methods for individual scores
 public int getJava() {
    return java;
 public int getSQL() {
    return sql;
 public int getMath() {
    return math;
 public int getChinese() {
    return chinese;
______
ScoreTest.java
package com.lgcns.mission.student;
import com.lgcns.mission.util.MissionUtil;
import java.util.Arrays;
import java.util.Comparator;
public class ScoreTest {
 public static void main(String[] args) {
    System.out.println("Masukkan jumlah siswa di kelas: ");
```



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int numberOfStudents = MissionUtil.getUserIntegerInput();
    Student[] students = new Student[numberOfStudents];
    for (int i = 0; i < numberOfStudents; i++) {
      String studentId = String.format("STD%02d", i + 1);
      students[i] = new Student(studentId);
      System.out.println("Masukkan nilai Java untuk " + studentId + ": ");
      int javaScore = MissionUtil.getUserIntegerInput();
      System.out.println("Masukkan nilai SQL untuk " + studentld + ": ");
      int sqlScore = MissionUtil.getUserIntegerInput();
      System.out.println("Masukkan nilai Matematika untuk " + studentld + ": ");
      int mathScore = MissionUtil.getUserIntegerInput();
      System.out.println("Masukkan nilai Bahasa Mandarin untuk " + studentld + ": ");
      int chineseScore = MissionUtil.getUserIntegerInput();
      students[i].setScores(javaScore, sqlScore, mathScore, chineseScore);
    Arrays.sort(students,
Comparator. comparing Double (Student::calculate Average). reversed ()); \\
    for (int i = 0; i < students.length; i++) {
      students[i].setRank(i + 1);
      students[i].printScoreInfo();
      System.out.println("Peringkat: " + students[i].getRank());
    System.out.println("=======");
    printClassAverages(students);
  private static void printClassAverages(Student[] students) {
    double totalJava = 0, totalSQL = 0, totalMath = 0, totalChinese = 0;
    for (Student student : students) {
      totalJava += student.getJava();
      totalSQL += student.getSQL();
      totalMath += student.getMath();
      totalChinese += student.getChinese();
    }
    int studentCount = students.length;
    System.out.println("Nilai rata – rata kelas Java: " + String.format("%.2f", totalJava /
studentCount));
    System.out.println("Nilai rata - rata kelas SQL: " + String.format("%.2f", totalSQL /
studentCount));
    System.out.println("Nilai rata – rata kelas Matematika: " + String.format("%.2f",
totalMath / studentCount));
    System.out.println("Nilai rata – rata kelas Bahasa Mandarin: " + String.format("%.2f",
totalChinese / studentCount));
```



	System.out.println("=======""); } }
	MissionUtil.java
	package com.lgcns.mission.util;
	import java.util.Scanner;
	<pre>public class MissionUtil {    private static Scanner scanner = new Scanner(System.in);</pre>
	<pre>public static int getUserIntegerInput() {     return scanner.nextInt(); }</pre>
	<pre>public static double getUserDoubleInput() {     return scanner.nextDouble(); }</pre>
	<pre>public static String getCodeInput() {     return scanner.next();     } }</pre>
Screenshot	Capture several screenshots of the program execution results in this section, and add explanations if necessary.
	Hasil sample run 1

