Dbms mini project…..

Project name : STUDENT MARKS CALCULATION…

**Group introduction:**

In our group, there are five members named, MAYURI PATIL, SHARVARI KHADE, ROHINI BALPANDE,VRUSHALI KHOT & KRUSHNA KHEDKAR.

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INDEX:

* INTRODUCTION
* ACKNOWLEDGEMENT
* PROBLEM STATEMENT
* LANGUAGE
* ANATONOMY
* ABSTRACT
* FEATURES
* IMPLIMENTATION
* TABLE FOR THIS PROJECT
* FUNCTION OF THE SYSTEM
* CONCLUSION

**INTRODUCTION:**

We created our mini project of DBMS with the help of java programming language. Our project name is STUDENT MARKS CALCULATION . In which firstly we have to made table of student marks calculation. By which we can easily compiled our code .We used software “intellij idea” which is one the best platform for java coding. This app was made as part of a group project where five students each made an app and then packaged it into one app but for this We only included the app “INTELLIJ IDEA” there is a navigation bar activity. Compile JDK version 2021.3.2.

“Intellij idea” is a mini platform supports all the language like JVM ,groovy,scala,cotlin..

“Intellij Idea” ultimate is a supper set of most Intellij platform-based on ID’s. Student mark analyzing system has been designed to carry out the mark analysis process in an educational institution. The results of respective departments can be efficiently computed without much of manual involvement

Ex: if your applications code based mainly in java it can also uses python script by recommended using the “INTELLIJ IDEA” in combination with the bundle of python plugedin.

If your code based on mainly in python “PYCHARM” is the best IDE for you.

ACKNOWLEDGEMENT:

This is a great pleasure and satisfaction to express my deepest sense of gratitude and thanks to everyone who has directly or indirectly helped me in completing my project work successfully.

I express my gratitude towards my mentor Prof. NEHALI SHINDE MAM and HOD RAHUL GHODE SIR who guided and encourage me in completing the project work in scheduled time. I would like to thanks to our

principle Dr. Nihar walimbe, for allowing us to pursue the project in this institute.

PROBLEM STATEMENT :

Our project is meant to reduce manual work for the professor’s. Purpose of this project is to reduce the work and avoid miscalculations and keep Good countability.

**Language we were using: “JAVA”**

**JAVA is the coding language. Which was made in 1991 by sunmicrosystems. James goslin one of the inventor of java who called java as a OAK.**

**Java is simple to use.**

**Java is simple ,portable and reliable language.**

**Java having JDK AND JRE for running code.**

**There are two steps to run a code in JAVA.**

1. **COMPILATION**
2. **EXECUTION**

**In Java JDK compiled source code into the byte code and JVM convert byte code into the machine code.**

**ANATOMY OF A JAVA PROGRAM :**

* **Documentation section >>Suggested**
* **Package statement >>Optional**
* **Import statement >>Optional**
* **Interface statement >>Optional**
* **Class definition >>Optional**
* **Main method class**

**{**

**main method definition >>Essential**

**}**

**ABSTRACT:**

**The goal of this project is to create a system that will capture marks ,calculate final marks. HoD and PRINCIPAL also likes to see this marks hence a multiples user system that will allow each faculty to enter marks from his/her class and others to view should be of value to college.**

**A faculty typically keep records of marks of each internal exam in an excel file so it will be easy to manage with the help of system .**

**There are many students in one class then it’s became a easy way to calculate no. of students marks just we have to enter subject’s marks.**

**Features :**

* This program calculates the Grades of a student based on the marks entered by user in each subject.
* Program prints the grade on this logic-

If the avg is > 50 then print “PASS”

else the avg is < 50 then print “Fail”

* To understand this program you should have the knowledge of the following concept of java:
* JAVA for loop
* Arrays in JAVA
* If..else in JAVA

**IMPLIMANTATION:**

import javax.swing.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class STUDENTMA {  
 private JTextField txtStname;  
 private JTextField txtRl;  
 private JTextField txtDM;  
 private JTextField txtCM;  
 private JTextField txtSM;  
 private JTextField txtMM;  
 private JTextField txtPM;  
 private JTextField txtTM;  
 private JTextField txtAVG;  
 private JTextField txtGRADE;  
 private JButton CALButton;  
 private JPanel Main;  
  
 public static void main(String[] args) {  
 JFrame frame = new JFrame("STUDENTMA");  
 frame.setContentPane(new STUDENTMA().Main);  
 frame.setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 frame.pack();  
 frame.setVisible(true);  
 }  
  
 public STUDENTMA() {  
 CALButton.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
  
 int DBMSmarks,CGmarks,M3marks,SEmarks,PAmarks,TOTAL;  
 double avg;  
 DBMSmarks=Integer.*parseInt*(txtDM.getText());  
 CGmarks=Integer.*parseInt*(txtCM.getText());  
 PAmarks=Integer.*parseInt*(txtPM.getText());  
 SEmarks=Integer.*parseInt*(txtSM.getText());  
 M3marks=Integer.*parseInt*(txtMM.getText());  
  
 TOTAL=DBMSmarks+CGmarks+M3marks+SEmarks+PAmarks;  
  
 txtTM.setText(String.*valueOf*(TOTAL));  
  
 avg=TOTAL/5;  
 txtAVG.setText(String.*valueOf*(avg));  
 if(avg>50){  
 txtGRADE.setText("PASS");  
 }  
 else  
 {  
 txtGRADE.setText("Fail");  
 }  
  
 }  
 });  
 }  
}

Table of this project :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STUDENT MARKS CALCULATION |  |  |  |  |
| Student name |  |  |  |  |
| Roll no. |  |  |  |  |
| DBMS Marks |  |  |  |  |
| CG Marks |  |  |  |  |
| PA marks |  |  |  |  |
| M3 Marks |  |  |  |  |
| SE Marks |  |  |  |  |
| TOTAL |  |  |  |  |
| AVG |  |  |  |  |
| GRADE |  |  |  |  |
| CAL |  |  |  |  |

**Functions of the system:**

The current system is as mention earlier very complicated and expensive as compared to the new system. It also waste the precious time of faculties which can they be used in solving student quiries and helping them improvevise.

Existing system has some limitation as follows.

1. At present keeping records is manual.
2. Large no. of records is required lacks of securities.

Conclusion :

* To calculate how to compute a student's percentage of marks in an exam, a student's total marks should be divided by the maximum marks, and then multiplied by 100.
* For instance, if a student receives 95 out of 100 in DBMS, 85 out of 100 in SE, 75 out of 100 in M3, 87 out of 100 in PA And 99 out of 100 in CG. The student's total marks will be added

**Thanking you…..**