**CS101-Introduction to Computing**

**Assignment NO #2 – Solution**

**Code:**

#include <iostream>

#include <string>

using namespace std;

int main() {

string vuId;

int cs, math, pakStudy, mgt;

// Input section

cout << "Enter your VU-ID: ";

cin >> vuId;

cout << "Enter Marks for CS: ";

cin >> cs;

cout << "Enter Marks for Math: ";

cin >> math;

cout << "Enter Marks for Pak Study: ";

cin >> pakStudy;

cout << "Enter Marks for MGT: ";

cin >> mgt;

// Calculation section

int totalMarks = cs + math + pakStudy + mgt;

float averageMarks = totalMarks / 4.0;

// Output section

cout << "\nTotal Marks: " << totalMarks << endl;

cout << "Average Marks: " << averageMarks << endl;

// Grading section

string finalGrade;

if (averageMarks >= 91 && averageMarks <= 100)

finalGrade = "A+";

else if (averageMarks >= 81 && averageMarks < 91)

finalGrade = "A-";

else if (averageMarks >= 71 && averageMarks < 81)

finalGrade = "B+";

else if (averageMarks >= 61 && averageMarks < 71)

finalGrade = "B-";

else if (averageMarks >= 51 && averageMarks < 61)

finalGrade = "C";

else if (averageMarks >= 41 && averageMarks < 51)

finalGrade = "D";

else if (averageMarks >= 35 && averageMarks < 41)

finalGrade = "E";

else if (averageMarks >= 0 && averageMarks < 35)

finalGrade = "Fail";

else

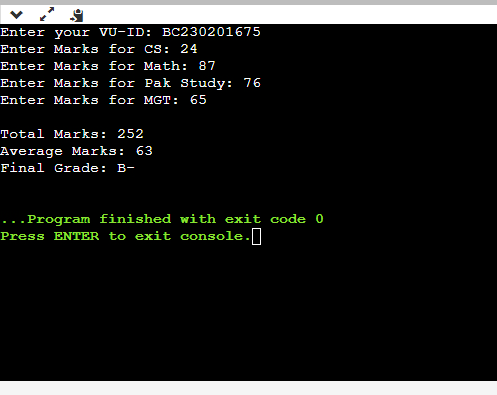
finalGrade = "Invalid";

cout << "Final Grade: " << finalGrade << endl;

return 0;

}

**OUTPUT:**

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