**Diwali Assignment**

#include <bits/stdc++.h>

using namespace std;

**//Q 1.  Accept 5 Subject Mark’s & calculate Total marks & Average.**

int calTotalMarks(int marks[], int n)

{

    int total = 0;

    for (int i = 0; i < n; i++)

    {

        total += marks[i];

    }

    return total;

}

int calAvgOfMarks(int marks[], int n)

{

    // int total = calTotalMarks(marks, n);

    // int avg = total / n;

    // return avg;

    return calTotalMarks(marks, n) / n;

}

int main()

{

    int marks[5];

    cout << "Enter Marks of student : " << endl;

    for (int i = 0; i < 5; i++)

    {

        cout << "Enter marks of sub " << i + 1 << " :" << endl;

        cin >> marks[i];

    }

    int totalMarks = calTotalMarks(marks, 5);

    int avg = calAvgOfMarks(marks, 5);

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

    cout << "Average of marks : " << avg << endl;

}

Output: PS D:\Fullstack-Java-FirstBit-Solutions> & 'c:\Users\bhagv\ TDM-GCC-64\bin\gdb.exe' '--interpreter=mi'

Enter Marks of student :

Enter marks of sub 1 : 45

Enter marks of sub 2 : 67

Enter marks of sub 3 : 89

Enter marks of sub 4 : 65

Enter marks of sub 5 : 088

Total Marks : 354

Average of marks : 70

PS D:\Fullstack-Java-FirstBit-Solutions>

#include <bits/stdc++.h>

using namespace std;

**// 2. Accept Bill Amount & calculate 18% GST Amount & final Amount.**

double calculateBill(double &amount)

{

    double gstAmt = (18.0 / 100) \* amount;

    return amount + gstAmt;

}

int main()

{

    double amount = 0;

    cout << "Enter Bill Amount : ";

    cin >> amount;

    double grossBill = calculateBill(amount);

    cout << "\nTotal Bill : " << grossBill << endl;

    return 0;

}

Output:

PS D:\Fullstack-Java-FirstBit-Solutions> & 'c:\Users\bhagv\.vscode\ TDM-GCC-64\bin\gdb.exe' '--interpreter=mi'

Enter Bill Amount : 100

Total Bill : 118

PS D:\Fullstack-Java-FirstBit-Solutions> & 'c:\Users\bhagv\.vscode\ TDM-GCC-64\bin\gdb.exe' '--interpreter=mi'

Enter Bill Amount : 53275.783

Total Bill : 62865.4

PS D:\Fullstack-Java-FirstBit-Solutions>