**Q. Write a program to print the results of 5 students using OOP.**

#include <iostream>

using namespace std;

class student

{

private:

char name[20];

int roll;

int total;

float per;

public:

//member function to get student's details

void details();

//member function to print student's details

void print();

};

//member function definition, outside of the class

void student::details()

{

cout << "Enter name : " ;

cin >> name;

cout << "Enter roll number : ";

cin >> roll;

cout << "Enter total marks out of 500 : ";

cin >> total;

per=(float)total/500\*100;

}

//member function definition, outside of the class

void student::print()

{

cout << "\nStudent details : \n";

cout << "Name : "<< name << ", Roll Number : " << roll << ", Total : " << total << ", Percentage : " << per<<"%";

}

int main()

{

student std[5]; //array of objects creation

int i;

for(i=0;i<2;i++)

{

cout << "Enter details of student " << i+1 << " :\n";

std[i].details();

}

cout << endl;

for(i=0;i<2;i++)

{

cout << "\nDetails of student " << (i+1) << ":";

std[i].print();

}

return 0;

}

//

#include<stdio.h>

#include<iostream>

using namespace std;

class student

{

public :

int roll;

string name ;

};

int main ()

{

student s;

float marks, percent;

cout<<"Enter name : ";

cin>>s.name;

cout<<"Enter roll no. : ";

cin>>s.roll;

cout<<"Enter total marks out of 300 : ";

cin>>marks;

percent = (marks/300)\*100;

cout<<"Name : "<<s.name<<endl;

cout<<"Roll no. : "<<s.roll<<endl;

cout<<"Total marks : "<<marks<<endl;

cout<<"Percentage : "<<percent<<endl;

}

**//**

#include<stdio.h>

#include<iostream>

using namespace std;

class student

{

public :

int roll, sub1, sub2, total, percent;

string name ;

void get\_data()

{

cout<<"Enter name : ";

cin>>name;

cout<<"Enter roll no. : ";

cin>>roll;

cout<<"Enter marks of subject 1 : ";

cin>>sub1;

cout<<"Enter marks of subject 2 : ";

cin>>sub2;

total = sub1 + sub2;

percent = (total/200)\*100;

}

void put\_data()

{

cout<<"Name : "<<name<<endl;

cout<<"Roll no. : "<<roll<<endl;

cout<<"Total marks : "<<total<<endl;

cout<<"Percentage : "<<percent<<endl;

}

};

int main ()

{

student s1, s2;

s1.get\_data();

s1.put\_data();

s2.get\_data();

s2.put\_data();

}

**//**

#include<stdio.h>

#include<iostream>

using namespace std;

class student

{

public :

float total, percent;

string name ;

void get\_data()

{

cout<<"\nEnter name : ";

cin>>name;

cout<<"Enter total marks out of 500 : ";

cin>>total;

percent = (total/500)\*100;

}

public :

void put\_data();

};

void student :: put\_data()

{

cout << "Name : "<< name <<", Total marks : " << total << ", Percentage : " << percent<<"%";

}

int main ()

{

int i;

student s[5];

for(i=1;i<=5;i++)

{

cout<<"\n\nEnter details of student "<<i;

s[i].get\_data();

cout<<"Result : \n";

s[i].put\_data();

}

getchar();

}

**Q. Write a program in C++ for the grocery shop to prepare bills for customers.**

#include <iostream>

#include<stdio.h>

using namespace std;

class customer

{

public:

char phone\_no[10];

char name[20];

char address[20];

int bill;

};

int main()

{

int i,j,n,rate,product,total;

customer c[100];

cout<<"Enter no. of customers : ";

cin>>n;

for(i=1;i<=n;i++)

{

total=0;

cout<<"\nEnter details of customer "<<i<<" : "<<endl;

cout<<"Enter customer's name : ";

cin>>c[i].name;

cout<<"Enter customer's phone no. : ";

cin>>c[i].phone\_no;

cout<<"Enter customer's address : ";

cin>>c[i].address;

cout<<"Enter no. of products purchased : ";

cin>>product;

for(j=1;j<=product;j++)

{

cout<<"Enter rate for product "<<j<<" : ";

cin>>rate;

total=total+rate;

}

c[i].bill=total;

cout<<"\nCUSTOMER'S BILL : "<<endl<<"Name : "<<c[i].name<<endl<<"Phone no. : "<<c[i].phone\_no<<endl<<"Address : "<<c[i].address<<endl<<"Total amount : "<<c[i].bill<<endl;

}

return 0;

}