Aim - Define a class to represent a bank account. Include the following members.

Data members: - Hame of depositor, Account Humber,
Type of account, Balance amount in account,

member function: - To assign initial values, To deposit an amount To withdraw after checking the balance, To display name and balance.

write a main program to test program using class and obj.

Theory - Object oriented programming

Object oriented programming is a programming style associated with the concepts of class and objects and various other concepts revolving around these two, like inheritance, polymorphism, Abstraction, Encapsulation, etc.

Encopsulation Inheritance

polymorphism Abstraction

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A class is a blue print of any functional entity which definies its properties and its functions. Like Human Being, having body parts, and performology various actions.

Inheritance ____

Inheritance is a way to reuse once written code again and again. The class inherited is called Base class and the class which inherite called as derived class. They are also called parent and child class.

So, when a deried class inherits a base class, the derived class can use all the functions which are defined in base class, hence making code reusable.

boldworthism -

It is a feature that lets user create functions with same name but different arguments, that performs various actions.

Encapsulation.

It can also be said data binding. Encapsulation is all about binding the data variables and functions tagether in class.

objects -

Objects are basic units of oop. These are instances of class, which have data members and uses various member function to perform tasks.

Program code:

```
#include <iostream>
#include <stdio.h>
#include <string.h>
using namespace std;
class Bank
{
  int acno;
  char AccountHolderName[100], Account_Type[100];
  float bal;
public:
  Bank(int acc_no, char *name, char *acc_type, float Balance)
  {
    acno = acc_no;
    strcpy(AccountHolderName, name);
    strcpy(Account_Type, acc_type);
    bal = Balance;
  }
  void deposit();
  void withdraw();
  void Show();
};
void Bank::deposit()
{
  int DepositAmmount;
```

```
cout << " Enter Deposit Amount = ";</pre>
 cin >> DepositAmmount;
 bal += DepositAmmount;
}
void Bank::withdraw()
 int WithdrawAmmount;
 cout << " Enter Withdraw Amount = ";</pre>
 cin >> WithdrawAmmount;
 if (WithdrawAmmount > bal)
   cout << " Cannot Withdraw Amount";</pre>
 bal -= WithdrawAmmount;
}
void Bank::Show()
{
 // cout << " ____
                                                        " << endl;
 cout << " Accout No. : " << acno;</pre>
 cout << " Name : " << AccountHolderName;</pre>
 cout << " Account Type : " << Account Type;</pre>
 cout << " Balance : " << bal;
}
int main()
{
 int acc_no;
 char name[100], acc_type[100];
 float Balance;
 cout << " ----- " << endl;
 cout << " " << endl;
 cout << " Please add account accout No.: ";</pre>
```

```
cin >> acc_no;
cout << " Please Enter Account Holder Name : ";
cin >> name;
cout << " Mention Account Type : ";
cin >> acc_type;
cout << " Initial Balance : ";
cin >> Balance;

Bank b1(acc_no, name, acc_type, Balance);
b1.deposit();
b1.withdraw();
b1.Show();
return 0;
}
```

Output of the program: