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Roll Number: SYCOC303   Division: C

PRN Number: 122B2B303   Batch: C4

Name: VINAYAK MADAN SHETE

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Problem Statement:

Define a class to represent a bank account which includes the following

members as:

Data members:

a. Name of the depositor b. Account Number c. Withdrawal amount

d. Balance amount in the account

 Member Functions:

e. To assign initial values f. To deposit an amount g. To withdraw an amount after checking the balance h. To display name and balance.

Implement the program by using features of OOP in C++.

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INPUT:

```
/*
 *    ======================================
 *         Program Name: BankAccount.cpp
 *    Created on: November 25, 2022
 *        Author: Vinayak Shete
 *   =====================================
 */


#include<iostream>
#include<string.h>
using namespace std;
```
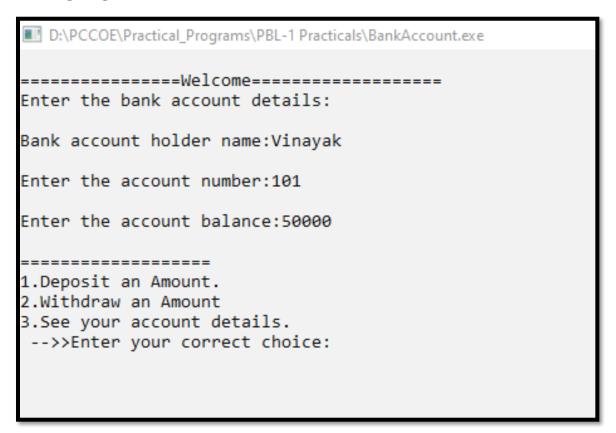
```cpp
class BankAccPrg
{
      int accNo;
      char accHolderName[100];
      double wdAmt,accBal;


      public:
            BankAccPrg(int acc_No, char *name, float balance)//constructor
for initialising values.
            {
                  accNo=acc_No;
                  strcpy(accHolderName, name);
                  accBal=balance;
            }
            void deposit();
            void withdraw();
            void display();
};


void BankAccPrg::deposit()
{
      int depAmt;
      cout<<"\nEnter the amount to be deposited:";
      cin>>depAmt;
      accBal=accBal+depAmt;
      cout<<"\nAccount balance after deposit: Rs."<<accBal;
}


void BankAccPrg::withdraw()
{
      int witAmt;
      cout<<"\nEnter the amount to be withdrawed:";
      cin>>witAmt;
      if(witAmt>accBal)
      {
```

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```cpp
            cout<<"\nInsufficient amount! Withdraw operation failed!";
        }
        else
        {
            accBal=accBal-witAmt;
            cout<<"\nAccount balance after withdraw: Rs."<<accBal;
        }

}


void BankAccPrg::display()
{
        cout<<"======================================";
        cout<<"\n==========ACCOUNT DETAILS==============";
        cout<<"\nAccount Information:";
        cout<<"\nAccount Holder Name:"<<accHolderName;
        cout<<"\nAccount Balance: Rs."<<accBal;
        cout<<"\n======================================";
}


int main()
{
        int acno;
        int ch,ch1;
        char name[100];
        double bal;
        cout<<"\n===============Welcome==================";
        cout<<"\nEnter the bank account details:\n";
        cout<<"\nBank account holder name:";
        cin>>name;
        cout<<"\nEnter the account number:";
        cin>>acno;
        cout<<"\nEnter the account balance:";
        cin>>bal;
```

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```
BankAccPrg b(acno,name,bal); //object created

cout<<"\n==================";

do

{

        cout<<"\n1.Deposit an Amount.\n2.Withdraw an Amount\n3.See your
account details.\n -->>Enter your correct choice:";

        cin>>ch;

        switch(ch)

        {

                case 1:

                        b.deposit();

                break;


                case 2:

                        b.withdraw();

                break;


                case 3:

                        b.display();

                break;


        }

        cout<<"\nDo you want to continue?[Press 1 for Yes || Press 0 for
No]";

        cin>>ch1;

    }while(ch1!=0);


    cout<<"\n=====================Thank
You!=============================";

    return 0;

}
```

==

OUTPUT:

```
D:\PCCOE\Practical_Programs\PBL-1 Practicals\BankAccount.exe

===============Welcome==================
Enter the bank account details:

Bank account holder name:
```

1) Assigning Initial Values:

```
D:\PCCOE\Practical_Programs\PBL-1 Practicals\BankAccount.exe

===============Welcome==================
Enter the bank account details:

Bank account holder name:Vinayak

Enter the account number:101

Enter the account balance:50000

===================
1.Deposit an Amount.
2.Withdraw an Amount
3.See your account details.
 -->>Enter your correct choice:
```

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2) Depositing an amount:

```
====================
1.Deposit an Amount.
2.Withdraw an Amount
3.See your account details.
 -->>Enter your correct choice:1

Enter the amount to be deposited:5200

Account balance after deposit: Rs.55200
Do you want to continue?[Press 1 for Yes || Press 0 for No]
```

3)Withrawing an amout:

```
Account balance after deposit: Rs.55200
Do you want to continue?[Press 1 for Yes || Press 0 for No]1

1.Deposit an Amount.
2.Withdraw an Amount
3.See your account details.
 -->>Enter your correct choice:2

Enter the amount to be withdrawed:56000

Insufficient amount! Withdraw operation failed!
Do you want to continue?[Press 1 for Yes || Press 0 for No]1

1.Deposit an Amount.
2.Withdraw an Amount
3.See your account details.
 -->>Enter your correct choice:2

Enter the amount to be withdrawed:4200

Account balance after withdraw: Rs.51000
Do you want to continue?[Press 1 for Yes || Press 0 for No]
```

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4)Displaying the account information:

```
====================
1.Deposit an Amount.
2.Withdraw an Amount
3.See your account details.
 -->>Enter your correct choice:3
========================================
==========ACCOUNT DETAILS==============
Account Information:
Account Holder Name:Vinayak
Account Balance: Rs.51000
========================================
Do you want to continue?[Press 1 for Yes || Press 0 for No]
```

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