```
#include <iostream>
       #include <time.h>
       #include <fstream>
       #include <conio.h>
       #include <string.h>
       #include <stdlib.h>
       using namespace std;
       class Bank
       public:
           virtual void deposit()=0;
                        double limit;
       };
        template<class t1>
       class Account:public Bank
         t1 acname;
         string b,d,branch;
         double acNo,a;
          static double acBalance;
          int pin,c;
          public:
          friend void accountExit();
Account(t1 acname,t1 branch)
 {
       system("cls");
               this->b=acname;
               this->d=branch;
 void operator +()
 cout<<"Addition of pin & account no is "<<a+c<endl;
system("pause");
 system("cls");
 cout<<"Hey "<<b<<" You are at SBI Branch "<<d<endl;
          void getdata(double acNo)
               cout<<"Checking the Data"<<endl;</pre>
                                                                    this->a=acNo;
```

```
system("pause");
            }
       void getdata(int pin)
         Account p(acname,branch);
         ofstream f;
         f.open("xyz.txt");
         f.write((char *)&p, sizeof(p));
         this->c=pin;
         cout<<"Enter the Recent balance:"<<endl;
    cin>>acBalance;
         }
         void deposit()
            system("cls");
cout<<"\nATM ACCOUNT DEPOSIT SYSTEM"; cout<<"\n\nThe Names of the Account
Holder is :"<<b<<"\n\n";
cout<<"\tThe Branch location is :"<<d<<"\n\n";
          cout<<"\tAccount number :"<<a<<"\n\n";
                                                           cout<<"\tPresent available
balance:$"<<acBalance<<"\n\n";
          cout<<"\tEnter the Amount to be Deposited $";
              double amount;
              cin>>amount;
           acBalance=acBalance+amount;
           cout<<"\n\tYour new available Balanced Amount is $"<<acBalance<<endl;
           cout<<"\n\t\t\tThank You!\n\n"<<endl;
           cout<<"Press any key to Return to the Main Menu\n\n";
           system("pause");
         }
         void withdraw()
            system("cls");
           cout<<"\nATM ACCOUNT WTHDRAWAL";
           cout<<"\n\nThe Names of the Account Holders is :"<<b<<"\n\n";
           cout<<"\tThe Branch location is :"<<d<<"\n\n";
           cout<<"\tAccount number :"<<a<<"\n\n";
                                                            cout<<"\tPresent available
balance:$"<<acBalance<<"\n\n";
           cout<<"\tEnter the Amount to be Withdrawn $";
               double amount;
```

```
cin>>amount;
              if(amount>acBalance||amount>9000)//
            try
            {
           system("cls");
           throw amount;
       catch(double amount)
cout<<" ATM ACCOUNT WITHDRAWAL Exception";
          cout<<"\n\tlnsufficient Available Balance in your account.\n\n"<<endl;
           cout<<"\t\tSorry !!\n"<<endl;
           system("pause");
           }
       else
             acBalance=acBalance-amount;
         system("cls");
cout<<"\nATM ACCOUNT WTHDRAWAL \n";
           cout<<"\n\nThe Names of the Account Holders is :"<<b<<"\n\n";
           cout<<"\tThe Branch location is :"<<d<<"\n\n";
           cout<<"\tAccount number :"<<a<<"\n\n";
cout<<"Your new available Balanced Amount is $"<<Account::getcount()<<endl ;</pre>
 cout<<"Press any key to Return to the Main Menu\n\n";
           system("pause");
             }
         }
void details()
         {
           system("cls");
           cout<<"\nATM ACCOUNT DETAILS \n";
           cout<<"\n\nThe Names of the Account Holder is :"<<b<<"\n\n";
           cout<<"\tThe Branch location is :"<<d<<"\n\n";
        cout<<"\tAccount number :"<<a<<"\n\n";
cout<<"\tAvailable Balance:"<<acBalance<<"\n\n";
                cout<<"Press any key to Return to the Main Menu\n\n";
           system("pause");
         }
```

```
static double getcount()
              return acBalance;
              }
         };
         template<class t1>
double Account<t1>::acBalance;
 void accountExit()
         {
            system("cls");
            cout<<"\nATM ACCOUNT EXIT \n";</pre>
            cout<<"\n\n\t\t BROUGHT TO YOU BY SBI YONO Partners \n\n";
            system("pause");
            exit(1);
         }
class A
{
public:
 friend class Security;
 int ifsc=9203;
};
              class Security
          {
          public:
         void data(A s1) {
 cout<<"Dont share your pin with anyone protect your Account and Privacy IFSC for SBI
bank bhandara is "<<s1.ifsc<<endl;
          };
         int main()
         int e;
         double acNo;
         int pin;
```

```
string acname, branch;
      Bank *bn;
      Security s1;
      A s2:
=========== WELCOME TO SBI ATM
______
=======\n":
cout<<"\t\t----\n"<<endl:
           cout << "\t\tCurrent date : ";
        time t now;
        time(&now);
       printf("%s\n", ctime(&now));
cout<<"\t\t----\n"<<endl:
==\n":
s1.data(s2);
cout<<"\n\tlnsert your card Press 1 and Then Press Enter to Access Your Account.\n\n";
       cout<<"\t\t\t\t or \n\n";
cout<<"\tlnsert your card Press 0 and press Enter to get Help.\n\n";
       int access;
       cin>>access;
       switch(access)
      {
      case 1:
      system("cls");
      cout<<"\nREADING CHIP DATA\n":
       cout<<"\n ACCESSING YOUR ACCOUNT \n";
       cout<<"\n\nEnter Your 4 Digit Pin!![Only one attempt is allowed]\n\n"<<endl;
      cin>>pin;
       system("cls");
       cout<<"Enter Account Holders Name"<<endl;
       cin>>acname:
cout<<"Enter the Branch of your Account:"<<endl;
      cin>>branch;
```

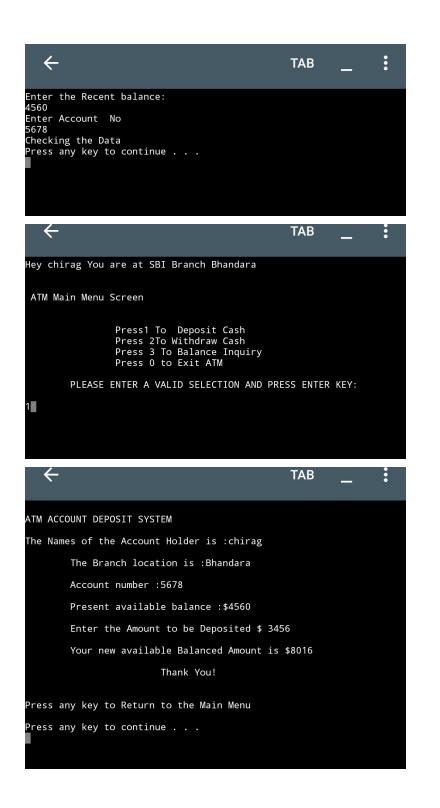
```
Account<string> p(acname,branch);
           bn=&p;
              p.getdata(pin);
           cout<<"Enter Account No"<<endl;
           cin>>acNo;
           p.getdata(acNo);
         if(to_string(pin).length()==4)
           system("cls");
           do
            {
                         system("cls");
            +p;
              cout << endl << "\n ATM Main Menu Screen \n" << endl << endl;
       cout << "\t\Press1 To Deposit Cash" << endl;</pre>
       cout << "\t\tPress 2 To Withdraw Cash" << endl;</pre>
cout << "\t\tPress 3 To Balance Inquiry" << endl;</pre>
       cout << "\t\tPress 0 To Exit ATM" << endl << endl;
       cout << "\tPLEASE ENTER A VALID SELECTION AND PRESS ENTER KEY: \n\n";
            cin>>e;
            switch(e)
              case 1:
                 bn->deposit();
                 break;
               case 2:
                 p.withdraw();
                 break;
               case 3:
                 p.details();
                 break;
               case 0:
                 accountExit();
                 break;
            default:cout<<"Please Enter the Correct Number Choice"<<endl;
            }
         }while(e!=0);
```

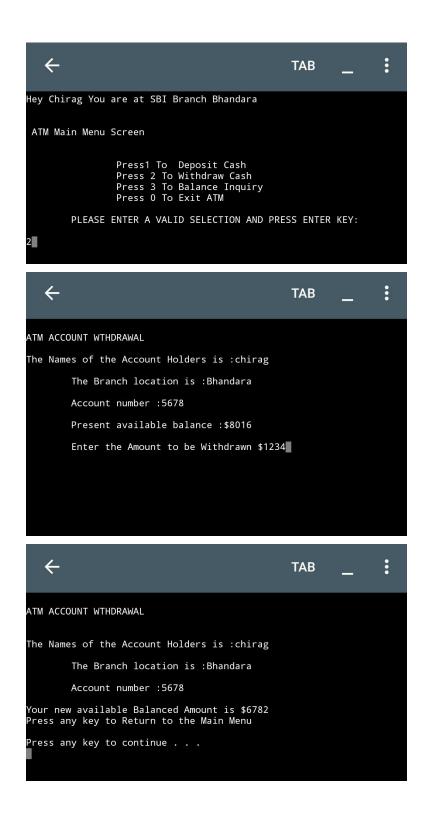
```
break;
          }
           else
           system("cls");
       cout<<" THANK YOU ";
       cout<<"\nIncorrect PIN!!! No More attempts allowed!! Data Not Matched!!!!
Sorry!!\n\n";
          system("pause");
          exit (1);
          }
          }
               case 0:
         system("cls");
          cout<<"\nATM ACCOUNT STATUS \n";
                   cout<<"\tYou must have the correct pin number to access this acount.
Contact your bank representative for assistance during bank
                                                               opening hours\n\n";
                   cout<<"\t\tThanks for, your choice today!!\n\n";</pre>
          system ("pause");
           exit(1);
          break;
         }
       }
       system("pause");
       return 0;
       };
```

OUTPUT:-

←	ТАВ	_	:
======================================		======	
Current date : Tue Apr 28 13:2	27:57 202	20	
Dont share your pin with anyone protect your A IFSC for SBI bank bhandara is 9203	Account a	and Priv	
Insert your card Press 1 and Then Pres Your Account.			:SS
or Insert your card Press O and press Ent O∎	ter to ge	et Help.	
+	ТАВ	-	:
ATM ACCOUNT STATUS You must have the correct pin number t Contact your bank representative for assistar opening hours	to access nce durin	s this a ng bank	count.
Thanks for, your choice today!	!!		
Press any key to continue			

←	TAB _ :
WELCOME TO SBI ATM	==========
Current date : Tue Apr 28 13:	28:06 2020
======================================	
Insert your card Press 1 and Then Pro	
or	
Insert your card Press O and press Er 1∎	nter to get Help.
←	TAB _ :
← READING CHIP DATA	TAB _ :
READING CHIP DATA ACCESSING YOUR ACCOUNT	TAB _ :
ACCESSING YOUR ACCOUNT	
ACCESSING YOUR ACCOUNT Enter Your 4 Digit Pin!![Only one attempt is	
ACCESSING YOUR ACCOUNT Enter Your 4 Digit Pin!![Only one attempt is	allowed]





```
ATM ACCOUNT WTHDRAWAL
The Names of the Account Holders is :chirag
         The Branch location is :Bhandara
         Account number :5678
         Present available balance :$6782
         Enter the Amount to be Withdrawn $7000
                                                        TAB
ATM ACCOUNT WITHDRAWAL Exception
Insufficient Available Balance in your account.
                            Sorry !!
Press any key to continue . . .
Hey Chirag You are at SBI Branch Bhandara
 ATM Main Menu Screen
                  Press1 To Deposit Cash
Press 2 To Withdraw Cash
Press 3 To Balance Inquiry
Press 0 To Exit ATM
         PLEASE ENTER A VALID SELECTION AND PRESS ENTER KEY:
```

