```cpp
#include<iostream>
#include<string>
using namespace std;
class Account {
protected:
    string acc_title;     //account title (name of account holder)
    int ser_number;        //serial number
    string acc_number;    //account number
    float balance;
    float credit = 0;
public:
    void getdata() {
        cout << "Enter account title: \n";
        cin >> acc_title;
        cout << "Enter serial number:\n";
        cin >> ser_number;
        cout << "Enter account number:\n";
        cin >> acc_number;
        cout << "Enter balance:\n";
        cin >> balance;
    }

    virtual void tcredit() {}
    virtual void debit() {}
    virtual void getfixed(){}
    virtual void countfee(){}
```

```cpp
    virtual void check(){}
    virtual string getAccountType(){}
};


class PlusAccount : public Account {
protected:
    float fixed;
    float interest;
public:
    void getfixed() {
        cout << "What is the fixed amount of minimum balance? \n";
        cin >> fixed;
        cout << "What is the interest rate?\n";
        cin >> interest;
    }


    void debit() {
        float amount;

        cout << "Enter the amount:\n";
        cin >> amount;

        if (amount <= (balance-fixed)) {
            cout << "Rs. " << amount << " has been paid.\n";


            int remaining = amount * (interest / 100);    //interest on amount
            balance=balance-amount-remaining;
            cout << "After deducting interest: " << balance << " is available!\n";
        }
        else {
            cout << "You should maintain the amount of Rs. " << fixed << " in your account\n";
        }
```

```cpp
    }
    void tcredit() {
        // PlusAccount does not have a specific credit functionality
    }
    string getAccountType() {
        return "Plus Account";
    }
};


class FreedomAccount : public Account {
protected:
    float fixedfee;
    float fixedinterest;
public:
    void countfee() {
        cout << "Enter the fixed fee to be deducted from each transaction:\n";
        cin >> fixedfee;
        cout << "What is the fixed interest?\n";
        cin >> fixedinterest;
    }
    void check() {
        int choose;
        do {
            cout << "Choose: \n1. Credit\n2. Debit\n";
            cin >> choose;
            if (choose == 1) {
                tcredit();
            }
            else if (choose == 2) {
                debit();
            }
        } while (choose != 1 && choose != 2);
```

```cpp
        }
    void tcredit() {
        float amount;
        cout << "Enter the amount:\n";
        cin >> amount;
        cout << "Rs. " << amount << " has been paid.\n";
        credit += amount;
        credit += fixedfee;
        cout << " Credit = Rs. " << credit <<" !\n"<< endl;
    }
    void debit() {
        float amount;
        cout << "Enter the amount:\n";
        cin >> amount;
        if ((amount + fixedfee) <= balance) {
            cout << "Rs. " << amount << " has been paid.\n";
            balance -= (amount + fixedfee);  //deducting fixed fee
            float interest=amount*(fixedinterest/100);
            balance += interest;          // adding interest to balance
            cout << "Now your total balance is Rs. " << balance << endl;
        }
        else {
            cout << "You don't have sufficient money!\n";
            cout << "Your available balance is Rs. " << balance << endl;
        }
    }
    string getAccountType(){
        return "Freedom Account";
    }
};


int main() {
```

```cpp
Account* acc[10];   //array of 10 pointers to account, as said in question statement
int choice;
for (int i = 0; i < 5; i++) {     //creating 5 accounts using dynamic memory allocation
   do {
       cout<<"\n-------------------------------------\n\n\n";
       cout << "Choose the type of account number " << i+1 << " :\n1. Plus Account\n2. Freedom
Account\n";
       cin >> choice;
       if (choice == 1) {
          acc[i] = new PlusAccount;
          acc[i]->getdata();
          cout<<"Your Plus Account has been created!\n\n";
       }
       if (choice == 2) {
          acc[i] = new FreedomAccount;
          acc[i]->getdata();
          cout<<"Your Freedom Account has been created!\n\n";
       }
   } while (choice != 1 && choice != 2);
}


//As per statement, we have to perform functions only on first account, So


if (acc[0]->getAccountType() == "Plus Account") {


cout << "\nAs account 1 is a Plus Account!\n" << endl;


 // Perform operations specific to PlusAccount
acc[0]->getfixed();
acc[0]->debit();
}
else if (acc[0]->getAccountType() == "Freedom Account") {
cout << "\nAs account 1 is a Freedom Account!\n" << endl;
```

```
// Perform operations specific to FreedomAccount

acc[0]->countfee();

acc[0]->check();

}

    return 0;

}
```

Output:

For Plus Account

```
------------------------------------
Choose the type of account number 1 :
1. Plus Account
2. Freedom Account
1
Enter account title:
sobia
Enter serial number:
12
Enter account number:
41234
Enter balance:
8900
Your Plus Account has been created!

------------------------------------

Choose the type of account number 2 :
1. Plus Account
2. Freedom Account
1
Enter account title:
das
Enter serial number:
34
Enter account number:
432
Enter balance:
5323
Your Plus Account has been created!

------------------------------------
```

```
Choose the type of account number 3 :
1. Plus Account
2. Freedom Account
1
Enter account title:
sda
Enter serial number:
343
Enter account number:
42312
Enter balance:
432423
Your Plus Account has been created!

------------------------------------

Choose the type of account number 4 :
1. Plus Account
2. Freedom Account
2
Enter account title:
dfaf
Enter serial number:
32
Enter account number:
432
Enter balance:
43432
Your Freedom Account has been created!

------------------------------------
```

```
Choose the type of account number 5 :
1. Plus Account
2. Freedom Account
1
Enter account title:
sde
Enter serial number:
43
Enter account number:
423
Enter balance:
34324
Your Plus Account has been created!


As account 1 is a Plus Account!

What is the fixed amount of minimum balance?
2000
What is the interest rate?
10
Enter the amount:
5000
Rs. 5000 has been paid.
After deducting interest: 3400 is available!

--------------------------------
Process exited after 51.75 seconds with return value 0
Press any key to continue . . .
```

For Freedom Account

```
------------------------------------
                                    Choose the type of account number 3 :
                                    1. Plus Account
Choose the type of account number 1 : 2. Freedom Account
1. Plus Account                     1
2. Freedom Account                  Enter account title:
1                                   s
Enter account title:                Enter serial number:
dsd                                 21
Enter serial number:                Enter account number:
121                                 1212
Enter account number:               Enter balance:
1212                                121212
Enter balance:                      Your Plus Account has been created!
34234
Your Plus Account has been created!
                                    ------------------------------------
------------------------------------
                                    Choose the type of account number 4 :
Choose the type of account number 2 : 1. Plus Account
1. Plus Account                     2. Freedom Account
2. Freedom Account                  1
2                                   Enter account title:
Enter account title:                sas
sd                                  Enter serial number:
Enter serial number:                12`12
121`                                Enter account number:
Enter account number:               Enter balance:
Enter balance:                      21
121                                 Your Plus Account has been created!
Your Freedom Account has been created!
                                    ------------------------------------
------------------------------------
```

```
Choose the type of account number 5 :
1. Plus Account
2. Freedom Account
2
Enter account title:
3123
Enter serial number:
2123
Enter account number:
22323
Enter balance:
323232
Your Freedom Account has been created!


As account 1 is a Plus Account!

What is the fixed amount of minimum balance?
2000
What is the interest rate?
10
Enter the amount:
5000
Rs. 5000 has been paid.
After deducting interest: 25810.6 is available!

--------------------------------
Process exited after 75.57 seconds with return value 0
Press any key to continue . . . _
```