

Q4

a)

```
class Back Account
{
    int acct_num;
    string name_def;
    string acct_type;
    int bal;
    void Initialize ()
    {
        acct_num = 1111;
        name_def = "ABC";
        acct_type = " ";
        bal = 10000;
    }
    void deposit (int amt)
    {
        bal = bal + amt;
        cout << "amt << " added " << endl;
    }
    void withdraw (int amt);
    cout << amt << " withdraw " << endl;
    {
        bal = bal - amt;
        if (bal < 0)
            cout << "No balance" << endl;
        else {
            cout << amt << " withdrawn " << endl;
        }
    }
    void display ()
    {
        cout << "Current balance = " << bal;
    }
}

int main()
```

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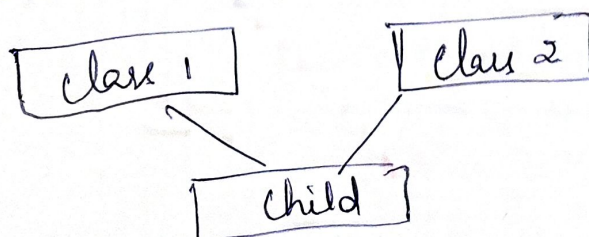
```

{
    string name, type;
    int num, amt;
    for (int i=1; i<=10; i++)
    {
        obj[i].Initialize();
        getline(obj[i].name, cin);
        getline(obj[i].type, cin);
        cin >> obj[i].acc_num;
        cout << "Deposit amt : ";
        cin >> amt;
        obj[i].deposit(amt);
        obj[i].display();
        cout << "Withdraw amt : ";
        cin >> amt1;
        obj[i].withdraw(amt1);
        obj[i].display();
    }
    return 0;
}

```

b) Inheritance is a process in which one object acquires all the properties and behaviours of its parent object. In this, we can reuse, enter, modify the attributes and behaviours defined in other classes.

Multiple Inheritance



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```
#include <iostream>
```

```
using namespace std;
```

```
class base1
```

```
{ public :
```

```
void display ()
```

```
{
```

```
cout << " First function of base1" << endl;
```

```
};
```

```
class base2
```

```
{ public :
```

```
void display 2()
```

```
{
```

```
cout << " Second function of base class " endl;
```

```
}
```

```
int main ()
```

```
{
```

```
child ch;
```

```
ch.display ();
```

```
ch.display 2 ();
```

```
ch.display 3 ();
```

```
return 0;
```

```
}
```

```
class child : public base1, public
```

```
base2
```

```
{
```

```
public :
```

```
void display 3()
```

```
{
```

```
cout << " Derived class " << endl;
```

```
};
```

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