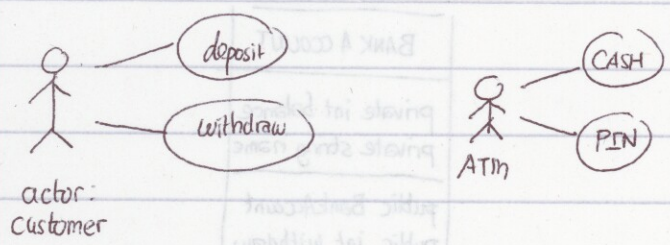
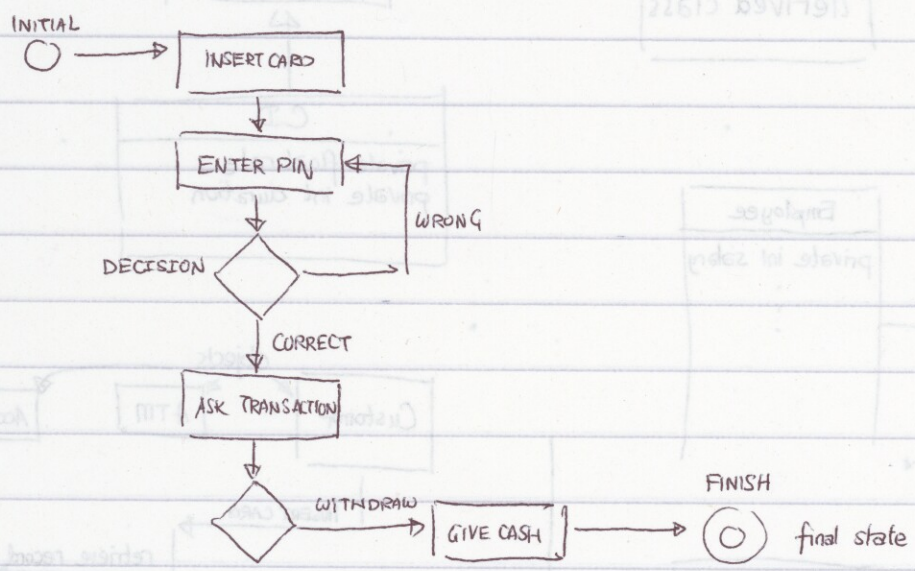


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**USE CASE**

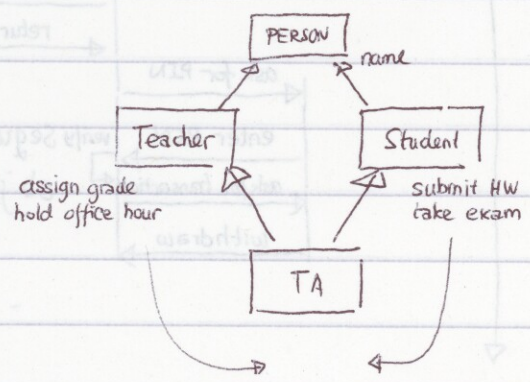


**STATE TRANSITION DIAGRAM**



**MULTIPLE INHERITANCE**

C++ only  
NOT IN JAVA



```
class Teacher { };
class Student { };
class TA = public Teacher, public Student {
    virtual
    virtual
    immediate base
};
```

```
class Person {
public:
    Person (string n) : name (n) { }
private:
    string name;
};

class Student {
    Student (string n) : Person (n) { }
};
```

```
class Teacher {
public:
    Teacher (string n) : Person (n) { }
};
```

cannot do  
name = n because  
name is private in  
Person

~~TA (string n)~~