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Course Link: https://www.knowledgegate.in/learn/Mera-Placement-Hoga

WHY OOPS?

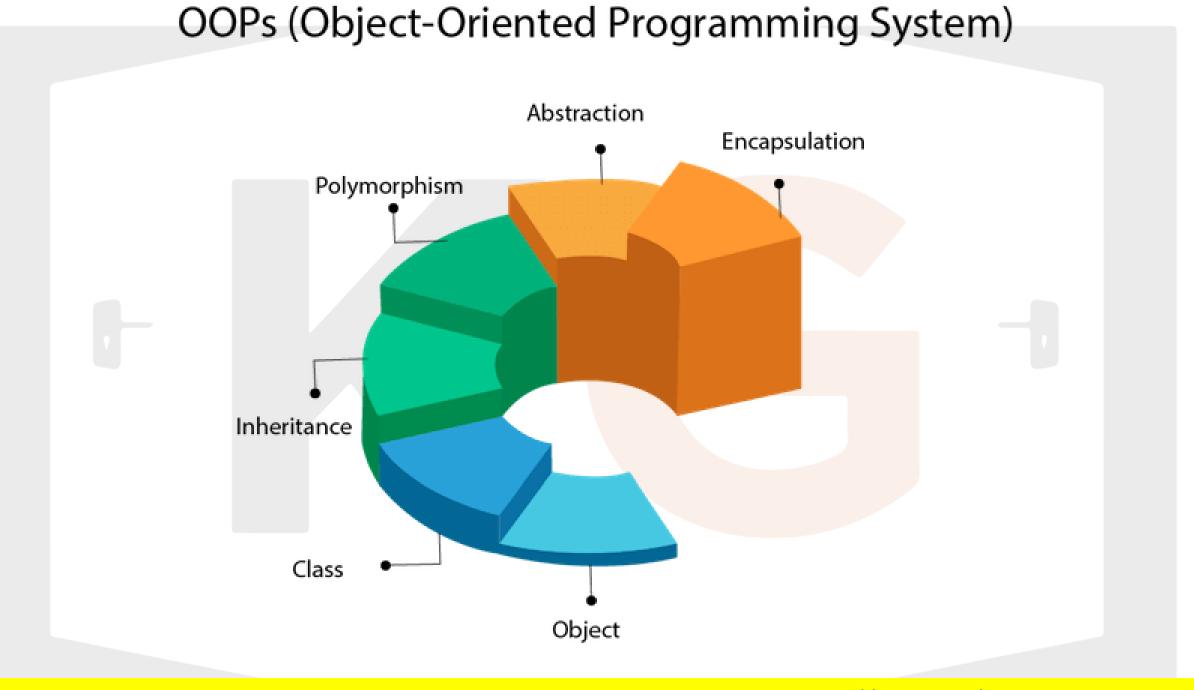
## MERA PLACEMENT HOGA

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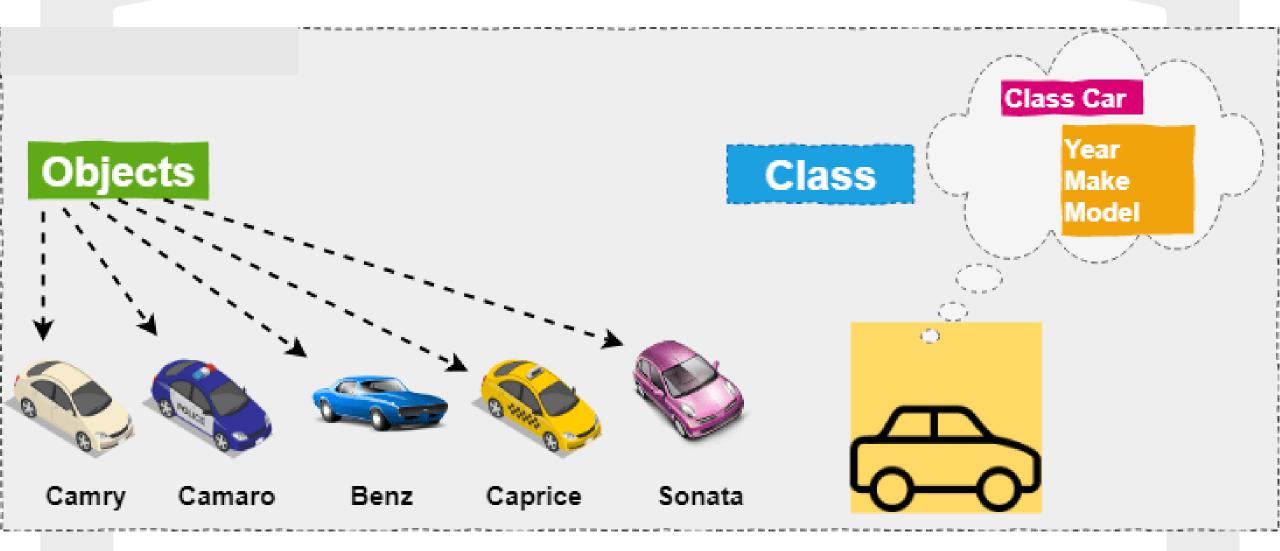


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## **CLASS & OBJECT**



### **CLASS & OBJECT**

- Objects have state and behaviour
   Eg: Dogs have state (name, colour, breed, hungry) and behaviour (barking, fetching, wagging tail).
- An object stores its state in fields (or in variables) and exposes its behaviour through methods.

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 A class is the blueprint of an object. When you write a class, you are describing how the JVM should make an object of that type.

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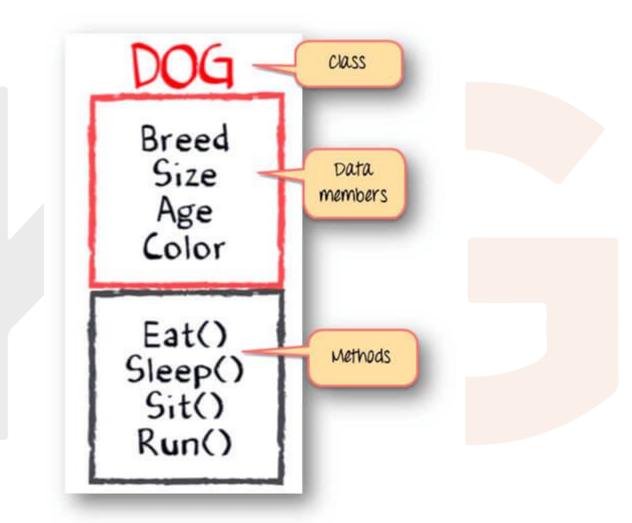


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## **CLASS & OBJECT**



## **CLASS & OBJECT**

```
class Student{
    string name;
    int age;
    bool gender;
};
```

```
#include<iostream>
                                               Code Link: https://onlinegdb.com/0ZJ4T5mrs
using namespace std;
class Student{
    string name;
    int age;
    bool gender;
int main()
    Student yash;
    yash.name = "Yash";
    return 0;
```

Compilation failed due to following error(s).

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```
₩ MOCK INTERVIEW
```





```
PERSONAL MENTORSHIP
```



```
#include<iostream>
using namespace std;
class Student{
    public:
    string name;
    int age;
    bool gender;
};
int main()
    Student yash;
    yash.name = "Yash";
    return 0;
```

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Code Link: <a href="https://onlinegdb.com/3bxjXPjGi">https://onlinegdb.com/3bxjXPjGi</a>

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```
int main()
                                                         Code Link: <a href="https://onlinegdb.com/EQYtvjOAs">https://onlinegdb.com/EQYtvjOAs</a>
class Student{
       string name;
                                    Student yash;
                                    yash.name = "Yash";
       int age;
                                    yash.age = 20;
       bool gender;
                                    yash.gender = 1;
                                    Student kanika;
                                    kanika.name = "Kanika";
                                    kanika.age = 19;
                                    kanika.gender = 0;
                                    return 0;
```



### **ENCAPSULATION**

Encapsulation is defined as the wrapping up of data under a single unit. It is the mechanism that binds together code and the data it manipulates. Another way to think about encapsulation is, it is a protective shield that prevents the data from being accessed by the code outside this shield.

Technically in encapsulation, the variables or data of a class is hidden from any other class and can be accessed only through any member function of its own class in which it is declared.

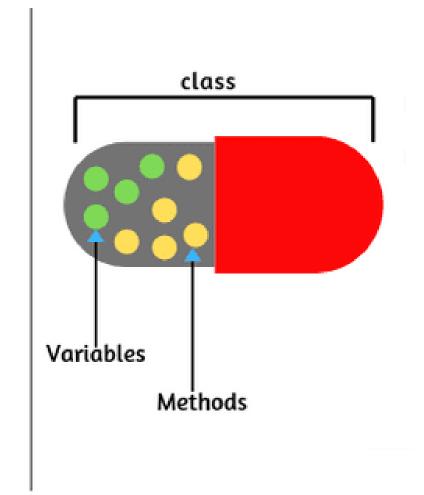
### **ENCAPSULATION**

```
class
{

data members

+

methods (behavior)
```



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```
#include<iostream>
using namespace std;
class KG{
    public: int p;
    public: int q;
    public: void setP(int input)
        p= input;
        q = p/2;
};
int main()
    KG obj;
    obj.p=1;
    obj.q=5;
    return 0;
```

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Code Link: https://onlinegdb.com/JVvfLINB1p

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#### **ENCAPSULATION**

Instance variables are declared private to prevent misuse.

Providing methods that can be used to read/write the state rather than accessing the state directly.



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Compilation failed due to following error(s).

```
main.cpp:18:9: error: 'int KG::p' is private within this context
   18
            obj.p=1;
main.cpp:5:18: note: declared private here
            private: int p;
main.cpp:19:9: error: 'int KG::q' is private within this context
   19
            obj.q=5;
main.cpp:6:18: note: declared private here
            private: int q;
```

```
#include<iostream>
                                                                           Code Link: <a href="https://onlinegdb.com/3iLwksjQZ">https://onlinegdb.com/3iLwksjQZ</a>
using namespace std;
class KG{
     private: int p;
     private: int q;
     public: void setP(int input)
          p= input;
          q = p/2;
int main()
     KG obj;
     obj.setP(6);
     return 0;
```

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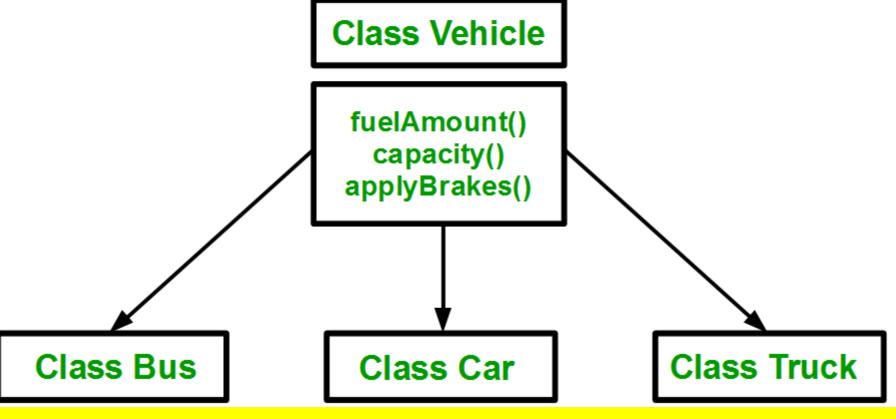








#### **INHERITANCE**



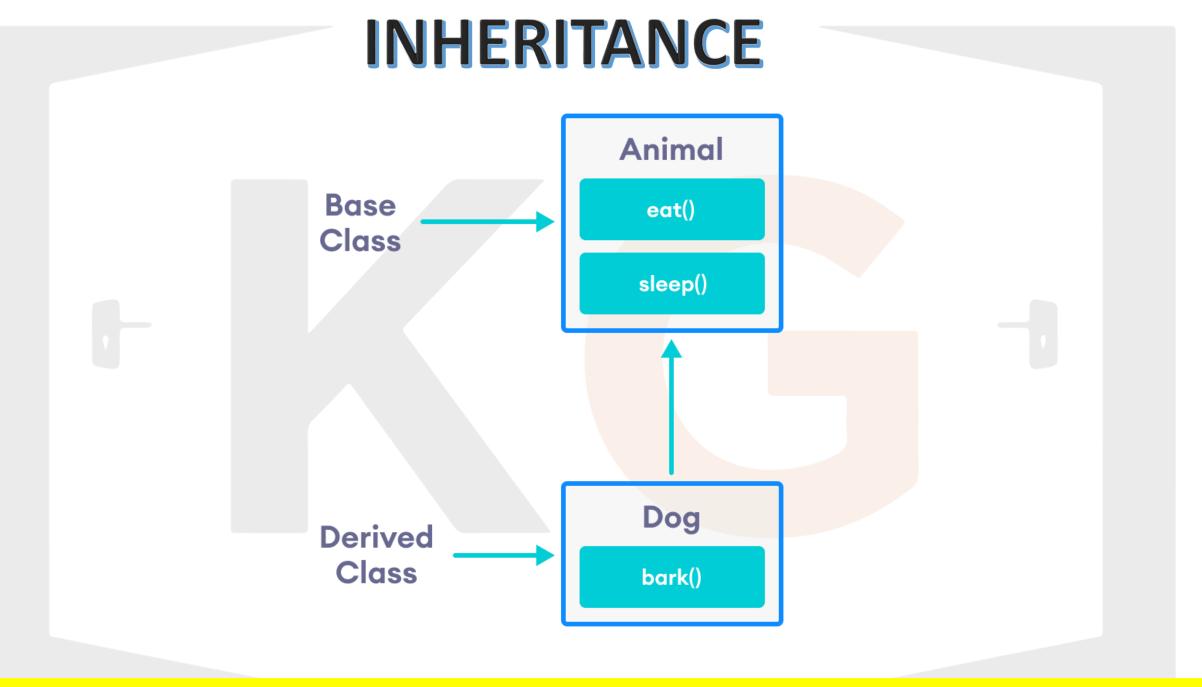
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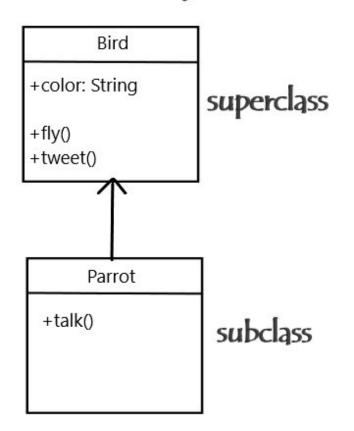
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# INHERITANCE Inheritance



```
#include <iostream>
using namespace std;
// Base class
class Parent
public:
    int p;
// Sub class inheriting from Base Class(Parent)
class Child : public Parent //class Child extends Parent
public:
    int c;
int main()
{□ }
```

```
Code Link: https://onlinegdb.com/9bMLS-jLBu
int main()
    Child obj1;
    // An object of class child has all data members
    // and member functions of class parent
    obj1.c = 7;
    obj1.p = 91;
    cout << "Child id is: " << obj1.c << '\n';
    cout << "Parent id is: " << obj1.p << '\n';
    return 0;
```







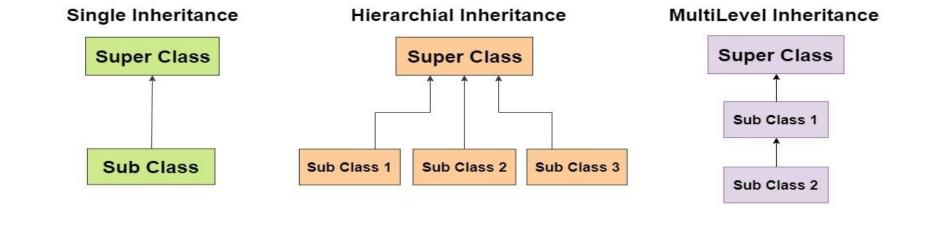


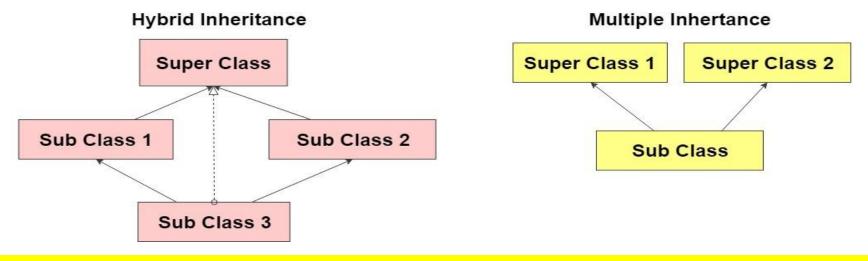












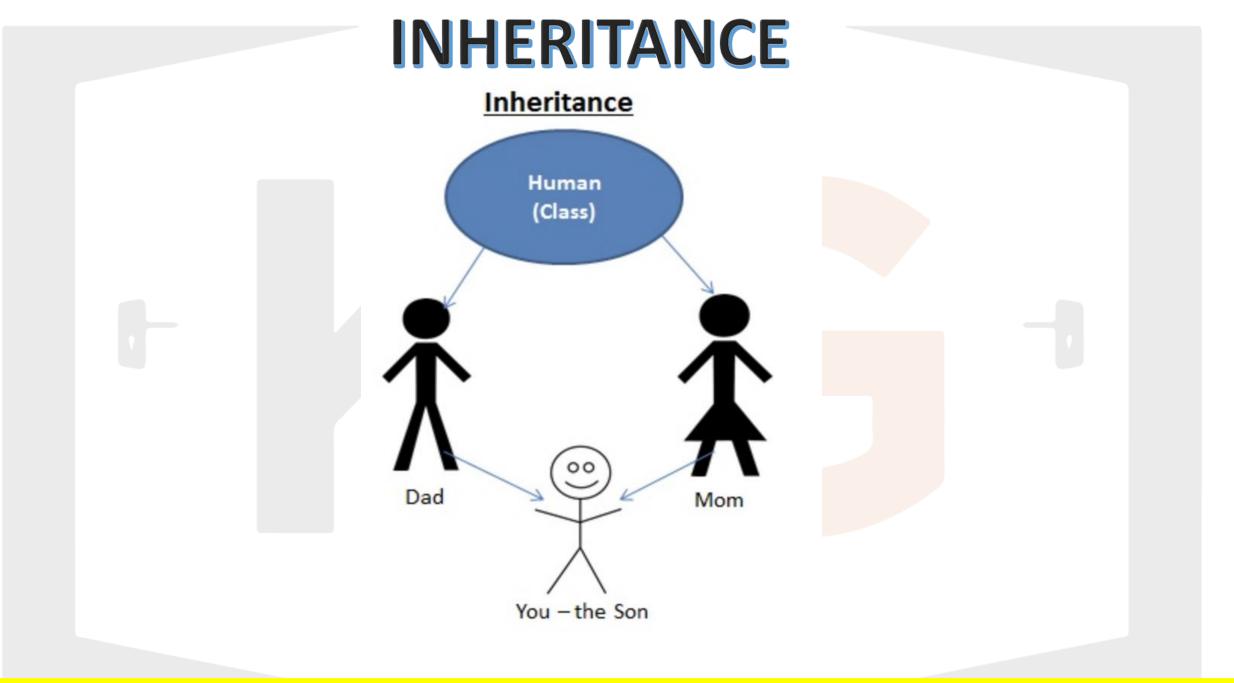
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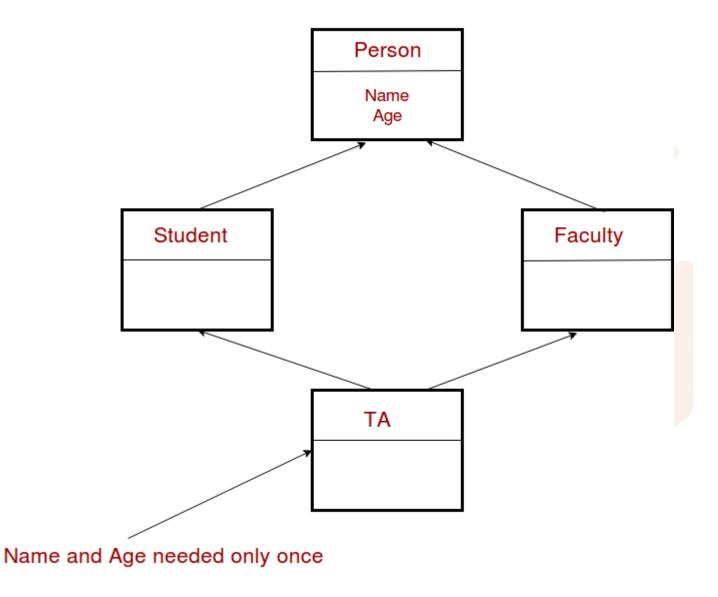
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## **DIAMOND PROBLEM**



#### **ABSTRACTION**

Abstraction means displaying only essential information and hiding the details. Data abstraction refers to providing only essential information about the data to the outside world, hiding the background details or implementation.

Consider a real life example of a man driving a car. The man only knows that pressing the accelerators will increase the speed of car or applying brakes will stop the car but he does not know about how on pressing accelerator the speed is actually increasing, he does not know about the inner mechanism of the car or the implementation of accelerator, brakes etc in the car. This is what abstraction is.

### **ABSTRACTION**



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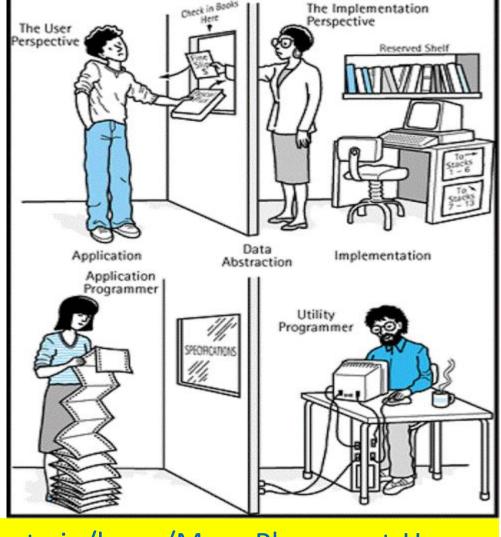












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## **ABSTRACTION**



## **ABSTRACTION**





## **POLYMORPHISM**

The word polymorphism means having many forms. In simple words, we can define polymorphism as the ability of a message to be displayed in more than one form.

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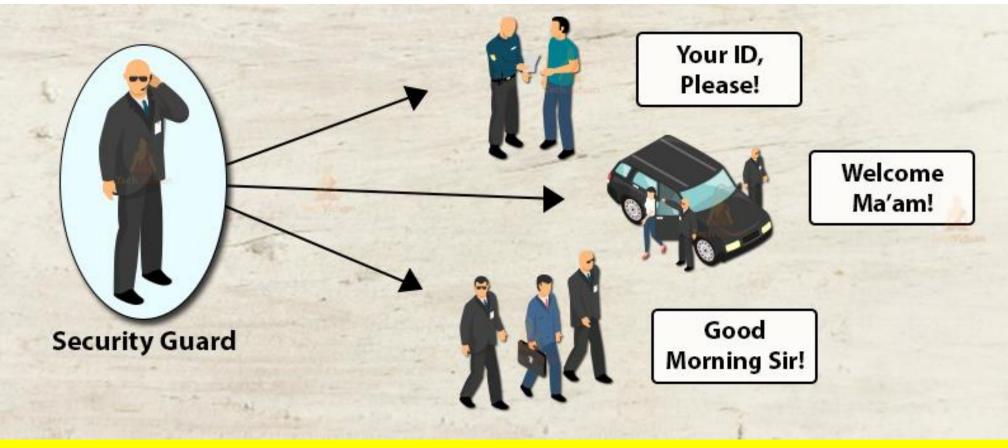








## **POLYMORPHISM**



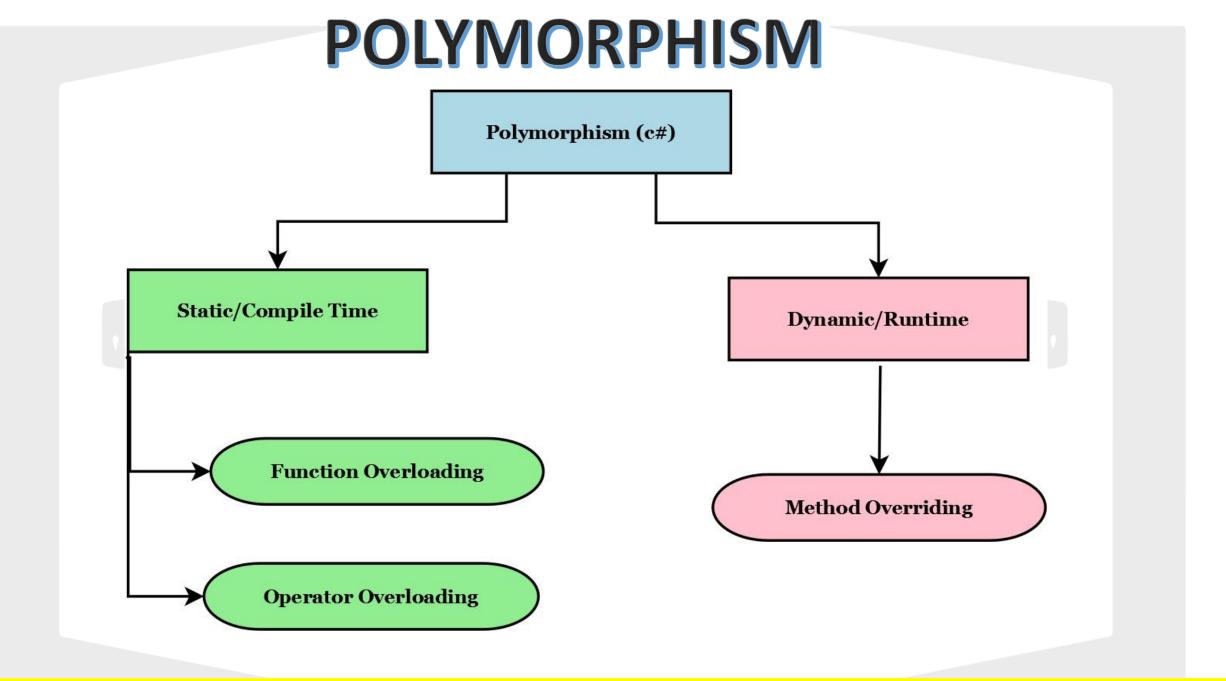
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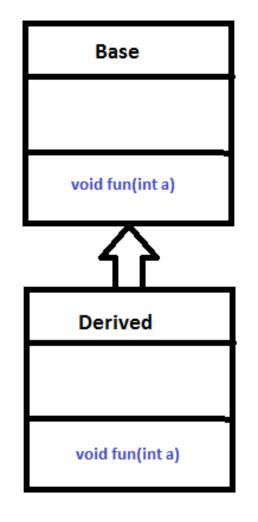




#### **POLYMORPHISM**

void fun(int a)
void fun(int a, int b)
void fun(char a)

**Overloading** 



**Overriding** 

### **METHOD OVERLOADING**

```
#include <iostream>
                                               int main()
using namespace std;
                                                    KG obj1;
class KG
                                                    obj1.func(7);
   public:
                                                    obj1.func(9.132);
   void func(int x)
                                                    obj1.func(85,64);
   {cout << "value of x is " << x << endl;}
                                                    return 0;
   void func(double x)
   {cout << "value of x is " << x << endl;}
   void func(int x, int y)
   {cout << "value of x and y is " << x << ", " << y << endl;}
```

Code Link: <a href="https://onlinegdb.com/Uqd1Wde\_wa">https://onlinegdb.com/Uqd1Wde\_wa</a>

#### **METHOD OVERRIDING**

```
#include<iostream>
using namespace std;
class base
public:
    virtual void print ()
    { cout<< "print base class" <<endl; }
    void show ()
    { cout<< "show base class" <<endl; }
```

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### **METHOD OVERRIDING**

```
class derived:public base
public:
    void print ()
    { cout<< "print derived class" <<endl; }
};
int main()
    base *bptr;
    derived d;
    bptr = &d;
    bptr->print();
    bptr->show();
    return 0;
```

Code Link: <a href="https://onlinegdb.com/EN3AorR8x">https://onlinegdb.com/EN3AorR8x</a>

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