



# ES6 - CLASS BASED

## No Reuse



```
class C1{
  constructor(){
    this.a = 0;
    this.b = 0;
  }


  print(){
    console.log(this.a);
    console.log(this.b);
  }
}

class C2{
  constructor(){
    this.a = 0;
    this.b = 0;
    this.c = 0;
    this.d = 0;
  }

  print(){
    console.log(this.a);
    console.log(this.b);
    console.log(this.c);
    console.log(this.d);
  }
}


//C1
var obj1 = new C1();
```





```
1.print();
1.a = 10;
obj1.b = 20;
obj1.print();

//C2
var obj2 = new C2();
obj2.print();
obj2.a = 100;
obj2.b = 200;
obj2.c = 300;
obj2.d = 400;
obj2.print();
```



## Object Composition




```
class C1{
  constructor(){
    this.a = 0;
    this.b = 0;
  }

  print(){
    console.log(this.a);
    console.log(this.b);
  }
}

class C2{
  constructor(){
    this.obj = new C1();
    this.c = 0;
    this.d = 0;
  }

  print(){
    this.obj.print();
    console.log(this.c);
    console.log(this.d);
  }
}
```





```
//C1
var obj1 = new C1();
obj1.print()
obj1.a = 10;
obj1.b = 20;
obj1.print();
```

```
//C2
var obj2 = new C2();
obj2.print()
obj2.obj.a = 100;
obj2.obj.b = 200;
obj2.c = 300;
obj2.d = 400;
obj2.print();
```

## Inheritance



```
class C1{
  constructor(){
    this.a = 0;
    this.b = 0;
  }

  print(){
    console.log(this.a);
    console.log(this.b);
  }
}

class C2 extends C1{
  constructor(){
    super();
    this.c = 0;
    this.d = 0;
  }
}
```





```
print(){  
  console.log(this.a);  
  console.log(this.b);  
  console.log(this.c);  
  console.log(this.d);  
}  
  
}
```

```
//C1  
var obj1 = new C1();  
obj1.print()  
obj1.a = 10;  
obj1.b = 20;  
obj1.print();
```

```
//C2  
var obj2 = new C2();  
obj2.print()  
obj2.a = 100;  
obj2.b = 200;  
obj2.c = 300;  
obj2.d = 400;  
obj2.print();
```

## super



```
class C1{  
  constructor(){  
    this.a = 0;  
    this.b = 0;  
  }  
  
  print(){  
    console.log("Print of C1");  
    console.log(this.a);  
    console.log(this.b);  
  }  
}
```





```
class C2 extends C1{
  constructor(){
    super();
    this.c = 0;
    this.d = 0;
  }

  print(){
    super.print();
    console.log("Print of C2");
    console.log(this.c);
    console.log(this.d);
  }
}

//C1
var obj1 = new C1();
obj1.print()
obj1.a = 10;
obj1.b = 20;
obj1.print();

//C2
var obj2 = new C2();
obj2.print()
obj2.a = 100;
obj2.b = 200;
obj2.c = 300;
obj2.d = 400;
obj2.print();
```

## polymorphism



```
class C1{
  constructor(){
    this.a = 0;
    this.b = 0;
```





```
print(){
  console.log(this.a);
  console.log(this.b);
}

sing(){
  console.log("Welcome to the Hotel Califronia.....");
}

}

class C2 extends C1{
  constructor(){
    super();
    this.c = 0;
    this.d = 0;
  }


  print(){
    super.print();
    console.log(this.c);
    console.log(this.d);
  }

  sing(){
    console.log("U Can't touch this.....");
  }

}

function Stage(obj)
{
  console.log("Entering Stage");
  console.log("Is the given Object Instance Of C1 => " + (obj
instanceof C1));
  console.log("Is the given Object Instance Of C2 => " + (obj
instanceof C2));
  obj.sing();
  console.log("Leaving Stage");
}
```





```
obj1 = new C1();  
obj1.print()  
obj1.a = 10;  
obj1.b = 20;  
obj1.print();  
obj1.sing();
```

```
//C2  
var obj2 = new C2();  
obj2.print()  
obj2.a = 100;  
obj2.b = 200;  
obj2.c = 300;  
obj2.d = 400;  
obj2.print();  
obj2.sing();
```

```
Stage(obj1);  
Stage(obj2);
```



Add : 25, Patel Shopping Center, Sai Nath Road, Malad (west) ,Opp malad subway , Mumbai 64 Contact : 9820396074, 022-28809398, 9820860292  
Copyright © 2011-2020 Rajesh Patkar, All rights reserved.

