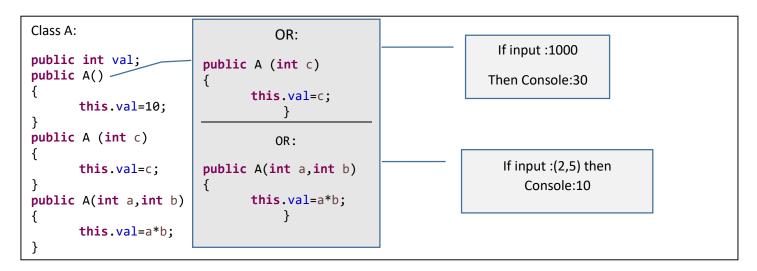
Exercise1: Using a lot of constructor functions with the super element.



```
🛭 A.java 🖾 🔟 Main.java
                          *B.java
                                       C.java
  5 {
  6
         System.out.println("classA");
  7
         System.out.println("www.google.com");
  8
  9
 10 public int val;
 11<sup>⊕</sup> public A()
 12 {
 13
         this.val=10;
 14 }
 15⊖ public A (int c)
 16 {
 17
         this.val=c;
 18
    public A(int a,int b)
 20 {
         this.val=a*b;
 22 }
 23@ public void Dummy()
 24 {
 25
         this.printA();
         System.out.println("Dummy");
 26
 27
 28
    }
 29
    }
 30
🖳 Console 🛭
terminated > Main [Java Application] C:\Program Files\Java\jdk-1
1000
```

EX2:Using set and get with private.

```
package Two;

public class A1 {
    private int val;
    public A1()
    {
        this.val=19;
    }
    public void setval(int k)
    {
            this.val=k;
    }
    public int getval()
    {
            return this.val;
    }
}
```

```
package Two;

public class Pract1 {

    public static void main(String[]args){
    A1 n=new A1();
    n.setval(77);
    int y=n.getval();
    System.out.println(y);
    }
}
Console: 77
```

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EX3: Application of the first part of the program(Simlecalc Class).

```
package Two;
public class Pract1 {
public static void main (String[] args)
Simlecalc calcadd= new Simlecalc(10,20);
int resultadd=calcadd.add();
System.out.println("The result Add is :
"+resultadd);
Simlecalc calcsub=new Simlecalc(10,20);
int resultsub=calcsub.sub();
System.out.println("The result Sub is
:"+resultsub);
}
}
Console:
The result Add is: 30
The result Sub is :-10
```

```
package Two;
public class Simlecalc {
      private int x;
      private int y;
      public Simlecalc ()
             this.x=0;
             this.y=0;
      public Simlecalc(int a, int b)
             this.x=a;
             this.y=b;
      public int add()
      {
             return this.x+this.y;
      public int sub ()
             return this.x-this.y;
}
```

```
package Two;
public class Pract1 {
public static void main (String[] args)
Simlecalc calcadd= new Simlecalc(10,20);
int resultadd=calcadd.add();
System.out.println("The result Add is :
"+resultadd);
Simlecalc calcsub=new Simlecalc(10,20);
int resultsub=calcsub.sub();
System.out.println("The result Sub is
:"+resultsub);
System.out.println("----");
Simlecalc calca3=new Simlecalc();
calca3.setx(4);
calca3.sety(10);
int res3=calca3.add();
System.out.println("The Result is :"+res3);
System.out.println("----");
calca3.setx(100);
calca3.sety(200);
System.out.println("The Result is
:"+calca3.getx());
System.out.println("----");
System.out.println("The Result is
:"+calca3.gety());
}
Console:
The result Add is: 30
The result Sub is :-10
-----
The Result is :14
-----
The Result is :100
______
The Result is :200
```

```
package Two;
public class Simlecalc {
      private int x;
      private int y;
      public Simlecalc ()
             this.x=0;
             this.y=0;
      public Simlecalc(int a, int b)
             this.x=a;
             this.y=b;
      }
      public int add()
             return this.x+this.y;
       }
      public int sub ()
             return this.x-this.y;
public void setx(int a) {
      this.x=a;
public void sety(int a)
      this.y=a;
}
      public int getx()
      return this.x;
}
      public int gety()
             return this.y;
      }
}
```

EX5: Application of the first part of the program(Anothercalca Class).

```
package Two;
public class Pract1 {
public static void main (String[] args)
      Anothercal calca= new
Anothercal(10,20);
       int result=calca.add();
      System.out.println(result);
       calca.setx(100);
       calca.sety(110);
       result=calca.add();
       System.out.println(result);
       System.out.println(calca.getx());
      System.out.println(calca.gety());
}
Console:
30
210
100
110
```

```
package Two;

public class Pract1 {
  public static void main (String[] args)
  {

      Anothercal calca= new Anothercal(10,20);
      int result=calca.add();
      System.out.println(result);
      calca.setx(100);
      calca.sety(110);
      result=calca.add();
      System.out.println(result);
      System.out.println(calca.getx());
      System.out.println(calca.gety());
}
}
```

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EX6:using inherent with capsulate and encapsulate data inside the classes.

```
package Two;

public class Pract1 {
  public static void main (String[] args)
  {

        Anothercal calca= new
        Anothercal(10,20);
        int result=calca.add();
        System.out.println(result);
        result=calca.mul();
        System.out.println(result);
        result=calca.div();
        System.out.println(result);
    }
    }
    Console:
    30
    200
    0
```

```
package Two;
public class Anothercal extends Simlecalc {
      public Anothercal()
             super();
public Anothercal (int a,int b)
{
      super(a,b);
}
      public int mul()
             return this.getx()*this.gety();
}
      public int div()
             int y=this.gety();
             if(y==0)
                    return 0;
             return this.getx()/y;
}
```

## EX7:Static method.

```
package Two;
public class Pract1 {
public static void main (String[] args)
{
int result= A.Add(10,5);
System.out.println(result);
result=A.sub(12, 15);
System.out.println(result);
result=A.mul(100, 2);
System.out.println(result);
result=A.div(100, 5);
System.out.println(result);
}
}
Console:
15
-3
200
20
```

```
package Two;

public class A {

public static int Add(int a,int b) {
    return a+b;
}

public static int sub(int a,int b) {
    return a-b;
}

public static int mul(int a, int b) {
    return a*b;
}

public static int div(int a,int b) {

    if (b==0)
    return 0;
    return a/b;
}
```

## EX8: Overload application inside the classes.

```
package Two;
public class Pract1 {
public static void main (String[] args)
Overloading m=new Overloading();
int R=m.Add(10, 90);
System.out.println("The Result of int
input is:"+R);
float k=m.Add(1.5f, 3.5f);
System.out.println("The Result of int
input is:"+k);
double DF=m.Add(77, 33);
System.out.println("The Result of int
input is:"+DF);
Console:
The Result of int input is:100
The Result of int input is:5.0
The Result of int input is:110.0
```

```
package Two;

public class Overloading {
        public int Add(int a, int b)
        {
            return a+b;
        }

public float Add(float a,float b)
        {
            return a+b;
        }

public double Add(double a,double b)
        {
            return a+b;
        }

}
```