

Inheritance

Inheritance Example

- Create Project MyInheritance
- Add a Class “Calculation”
- Include the Variables
- Add two methods

```
class Calculation{
```

```
    int z;
```

```
    public void addition(int x, int y){
```

```
        z = x+y;
```

```
        System.out.println("The sum of the given numbers:"+z);
```

```
    }
```

```
    public void Substraction(int x,int y){
```

```
        z = x-y;
```

```
        System.out.println("The difference between the given numbers:"+z);
```

```
    }
```

```
}
```

Inheritance Example

- Add a Class “My_Calculation” extends “Calculation”
- Add method multiplication
- Include two parameters x and y

```
public class My_Calculation extends Calculation{
```

```
    public void multiplication (int x, int y){  
        z = x*y;  
        System.out.println("The product of the given numbers:"+z);  
    }
```

Inheritance Example

- Return to the Main Class
- Include the Variables a,b
- Declare an instance of MyCalculation
- Call each method

```
public static void main(String args[]){  
    int a = 20, b = 10;  
    My_Calculation demo = new My_Calculation();  
    demo.addition(a, b);  
    demo.Substraction(a, b);  
    demo.multiplication(a, b);  
}
```