

public

private

protected

default / package - put -

Access Modifier

↳ define whether other classes
can use a particular
field or invoke a
particular method

class package child classes world

public

✓

✓

✓

✓

private

✓

✗

✗

✗

protected

✓

✓

✓

✗

default

✓

✓

inside package

✗

package private

✓

outside package

✗

Within the Same Class

package Access;

```
public class Student {  
  
    public int a=5 ;  
    private int b = 10 ;  
    protected int c = 15 ;  
    int d = 20 ;  
    void print(){  
        System.out.println(a);  
        System.out.println(b);  
        System.out.println(c);  
        System.out.println(d);  
    }  
  
    public static void main(String[] args) {  
        Student std = new Student() ;  
        std.print();  
    }  
}
```

within same package but outside class

package Access;

```
public class Employee {  
    public static void main(String[] args) {  
        Student std = new Student() ;  
        System.out.println(std.a);  
        System.out.println(std.b);  
        System.out.println(std.c);  
        System.out.println(std.d);  
    }  
}
```

From ChildClass

package Access;

```
public class ChildDemo extends Student{
    void print(){
        System.out.println(a);
        System.out.println(b);
        System.out.println(c);
        System.out.println(d);
    }
}
```

From Outside Package

package Access2;

import Access.Student;

```
public class ChildDemo extends Student {

    void print(){
        System.out.println(a);
        System.out.println(b);
        System.out.println(c);
        System.out.println(d);
    }
}
```