SUPERCLASS

IN PUBLIC CLASS

|  |  |  |  |
| --- | --- | --- | --- |
|  | PUBLIC | PROTECTED | PRIVATE |
| ATTRIBUTE | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| STATIC ATRIBUTE | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| METHOD | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| STATIC METHOD | CAN BE DIRECTLY ACCESED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |

IN PROTECTED CLASS (YOU CAN ONLY CREATE AN INSTANCE OF THE CLASS C1(PROTECTED) WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES)

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| --- | --- | --- | --- |
|  | PUBLIC | PROTECTED | PRIVATE |
| ATTRIBUTE | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| STATIC ATRIBUTE | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| METHOD | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| STATIC METHOD | CAN BE DIRECTLY ACCESED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |

IN PRIVATE CLASS (CANNOT INSTANTIATE CLASS, SUPERCLASS HAS CREATE PRIVATE (NOT CLASS FRIEND)) BUT STILL CAN USE STATIC COMAPONENTS DIRECTLY

|  |  |  |  |
| --- | --- | --- | --- |
|  | PUBLIC | PROTECTED | PRIVATE |
| ATTRIBUTE | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| STATIC ATRIBUTE | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| METHOD | CAN BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |
| STATIC METHOD | CAN BE DIRECTLY ACCESED | CAN'T BE DIRECTLY ACCESSED | CAN'T BE DIRECTLY ACCESSED |

SUBCLASS

ERROR

"WHEN USED CREATE PUBLIC, " IT IS SHOWING ERROR  
\*THE SUPERCLASS HAS THE PROPERTY CREATE PRIVATE. YOU CANNOT CREATE AN INSTANCE OF THE SUBCLASS. THIS  
\*CAN ONLY BE CHANGED OF THE SUBCLASS IS A FRIEDN OF THE SUPERCLASS  
\*CLASS C2 DEFINITION INHERITING FROM C1 CREATE PUBLIC.

CLASS C2 DEFINITION INHERITING FROM C1. " (WARNING)CANNOT INSTANTIATE CLASS, SUPERCLASS HAS CREATE PRIVATE (NOT CLASS FRIEND)  
ENDCLASS.

LOGICALLY PRIVATE CLASS CAN'T BE INSHERITED

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| --- | --- | --- | --- |
| INHERITED | PUBLIC | PROTECTED | PRIVATE |
| PUBLIC | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE | CAN BE DIRECTLY ACCESSED  AND  INHERITED | CAN'T BE  DIRECTLY ACCESSED  AND INHERITED | IT DOES NOT EXIST  NOT INHERITED | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE |  |  |  | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  |   SUPERCLASS (PROTECTED) = YOU CAN ONLY CREATE AN INSTANCE OF THE CLASS C1(PROTECTED) SUPERCLASS WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES  SUBCLASSCLASS (PUBLIC) =  YOU CAN ONLY CREATE AN INSTANCE OF THE CLASS C2(PUBLIC) WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE |  |  |  | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  |   SUPERCLASS = YOU CANNOT CREATE AN INSTANCE OF THE CLASS C1 OUTSIDE THE CLASS  SUBCLASS - YOU CANNOT CREATE AN INSTANCE OF THE CLASS C2 |
| PROTECTED | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE |  |  |  | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  |   PROTECTED - YOU CAN  ONLY CREATE AN  INSTANCE OF THE CLASS C2(PROTECTED) WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE |  |  |  | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  |   SUPERCLASS (PROTECTED) = YOU CAN ONLY CREATE AN INSTANCE OF THE CLASS C1(PROTECTED) SUPERCLASS WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES  SUBCLASSCLASS (PUBLIC) =  YOU CAN ONLY CREATE AN INSTANCE OF THE CLASS C2(PUBLIC) WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES | THE SUPERCLASS HAS THE PROPERTY CREATE PRIVATE. YOU CANNOT CREATE AN INSTANCE OF THE SUBCLASS. THIS CAN ONLY BE CHANGED OF THE SUBCLASS IS A FRIEDN OF THE SUPERCLASS |
| PRIVATE | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE |  |  |  | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  |   PRIVATE - YOU CANNOT CREATE AN INSTANCE OF THE CLASS C2(PRIVATE) OUTSIDE OF THE CLASS | |  |  |  |  | | --- | --- | --- | --- | |  | PUBLIC | PROTECTED | PRIVATE | | ATTRIBUTE |  |  |  | | STATIC ATRIBUTE |  |  |  | | METHOD |  |  |  | | STATIC METHOD |  |  |  |   SUPERCLASS (PROTECTED) = YOU CAN ONLY CREATE AN INSTANCE OF THE CLASS C1(PROTECTED) SUPERCLASS WITHIN THE CLASS ITSELF OR WITHIN ONE OF ITS SUBCLASSES  SUBCLASS - YOU CANNOT CREATE AN INSTANCE OF THE CLASS C2(PRIVATE) OUTSIDE OF THE CLASS | THE SUPERCLASS HAS THE PROPERTY CREATE PRIVATE. YOU CANNOT CREATE AN INSTANCE OF THE SUBCLASS. THIS CAN ONLY BE CHANGED OF THE SUBCLASS IS A FRIEDN OF THE SUPERCLASS |