Question: Since abstract class contains concrete methods as well so why we can’t create an object for abstract class?

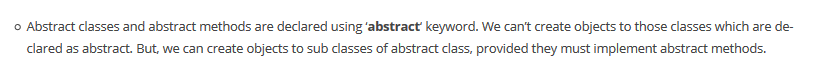
Answer: Abstract class is being considered as incomplete class since it contains abstract methods that’s why we no objects can be created.

Abstract classes contain abstract methods (you can refer them as ideas) so that they can be implemented in sub classes according to their requirements.

Abstract classes and abstract methods are declared using ‘**abstract**‘ keyword. We can’t create objects to those classes which are declared as abstract. But, we can create objects to sub classes of abstract class, provided they must implement abstract methods.

You can’t create objects to abstract class even though it does not contain any abstract methods.

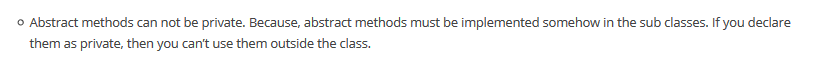
Notes about abstract classes:

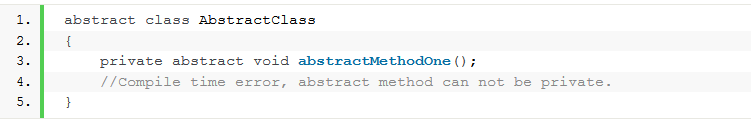












**Why final and abstract can not be used at a time?**

Because, final and abstract are totally opposite in nature. A final class or method can not be modified further where as abstract class or method must be modified further. “final” keyword is used to denote that a class or method does not need further improvements. “abstract” keyword is used to denote that a class or method needs further improvements.

**Can we instantiate a class which does not have even a single abstract methods but declared as abstract?**

No, We can’t instantiate a class once it is declared as abstract even though it does not have abstract methods.

**Can we declare abstract methods as private? Justify your answer?**

No. Abstract methods can not be private. If abstract methods are allowed to be private, then they will not be inherited to sub class and will not get enhanced.

**We can’t instantiate an abstract class. Then why constructors are allowed in abstract class?**

It is because, we can’t create objects to abstract classes but we can create objects to their sub classes. From sub class constructor, there will be an implicit call to super class constructor. That’s why abstract classes should have constructors. Even if you don’t write constructor for your abstract class, compiler will keep default constructor.