

# \* Interface \*

## \* Assignment Solutions \*

Q.1 What is an interface in Java?

Ans 1 An Interface in Java is a mechanism that is used to achieve complete abstraction. It is basically a kind of class that contains only constants and abstract methods.

Q.2 Which Modifiers are allowed for methods in an interface? Explain with an example?

Ans 2 only abstract and public Modifiers are allowed for methods in interfaces.

Q.3 What is the use of interface in Java?

Ans 3 there are many reasons to use interface in Java. they are as follows:-

a. An Interface is used to achieve full abstraction.

b. using interface is the best way to expose our project's API to some other project.



6. programmers use interface to customise features of s/w differently for different objects.

7. By using interface, we can achieve the functionality of multiple inheritance.

Q.4 What is the difference b/w abstract class and interface in Java?

<u>Ans</u> Abstract class	interface
(1) Abstract class can have abstract and non-abstract methods.	(1) Interface can have only abstract methods since Java 8, it can have default and static method also.
(2) Abstract class does not support multiple inheritance.	(2) Interface supports multiple inheritance.
(3) Abstract class can provide the implementation of interface.	(3) Interface can not provide the implementation of abstract class.
(4) the abstract keyword is used to declare abstract class.	(4) the interface keyword is used to declare the interface.

(5) Example

```
public abstract class Shapes {  
    public abstract void draw();  
}
```

(5) Example

```
public interface Drawable {  
    void draw();  
}
```