

## Assignment

1) What is an interface in Java?

An interface in Java is a mechanism that is used to achieve complete abstraction. It is basically a kind of class.

2) Which modifiers are allowed for methods in an interface? Explain with example.

Only abstract & public modifiers are allowed for methods in interfaces.

3) What is the use of interface in Java?

1. An interface is used to achieve full abstraction.
2. Using interface is the best way to express & expose our project's API to some other projects.
3. By using interface we can achieve the functionality of multiple inheritance.

4) What is the difference between abstract class & interface in Java?

### Abstract class

i) Abstract class can have abstract & non-abstract methods.

ii) Abstract class doesn't support multiple inheritance.

iii) Abstract keyword is used to declare abstract class.

iv) Example.

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

### Interface

i) Interface can have only abstract methods, since Java 8, it can have default & static methods also.

ii) Interface supports multiple inheritance.

iii) Interface keyword is used to declare interface.

Example.

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