1. What is interface in java?

* An interface is a collection of abstract methods,
* Interface is used to achieved abstraction and multiple inheritance

1. Why use java interface?

* It is used to achieve abstraction
* By interface, we can support the functionality of multiple inheritance

1. Why interface members are (variables) public static final?

* By default interface variable are public static and final
* When any member are static we can call directly we don’t need to create an object
* Because in interface we are not able to create object of interface, so that we can’t call the interface members, that’s why interface members are by default public static final

1. What is the advantage and disadvantage of interface in java?

* By interface, we can support the functionality of multiple inheritance
* Interfaces function to break up the complex designs and clear the dependencies between objects.
* We can create reference of interface
* We can’t create object of interface
* Interface method should be unimplemented only. We can’t write implemented methods inside interface, if we do that we will get compile time error

1. What difference is between extends and implements?

* Extends:
* Extends mean get all the properties from its parents
* Extends for when we are inheriting from a base class
* Implements:
* In an interface we can’t implement any of the declared method or member variables, only the class that ‘implements’ the interface can implement the method
* Implements for when we are implementing an interface
* So an interface has no implementation it’s just a contract of what members/method this type has

1. Why we are not able to create an object an interface?

* Whenever we will create any object of class, that object will be get one copy of that class member, it may be non-static variables, or non-static method
* But here in case of interface method are unimplemented so that though we are able to create an object, we can’t perform any action through the object because method has no body and method has no statement, so there is no point to creating an object of interface, method are unimplemented and method are undefined, that’s why we can’t create object of interface

1. When we will use interface in java?

* It depends on requirement of functionality, suppose when we have common functionality we can use interface, like bank, shopping mall etc.