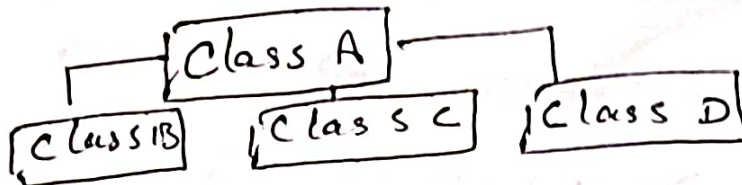


1] What is inheritance?

Inheritance is a Mechanism of which one class acquires the property of another class. Ex: child inherits the traits of his/her parents.

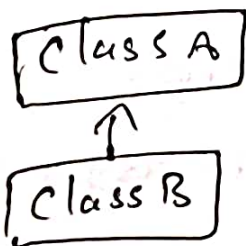


In Java a class can inherit attributes and methods from another class. The class that inherits the properties is known as the sub class (or) the child class.

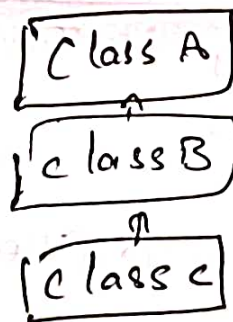
keyword = extends

2] Types of Inheritance?

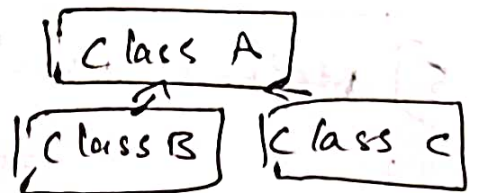
Single



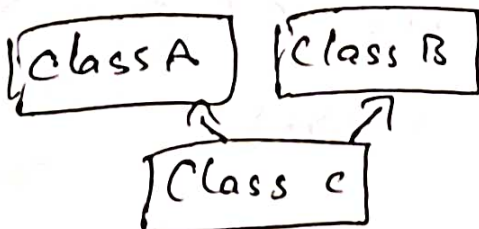
Multilevel



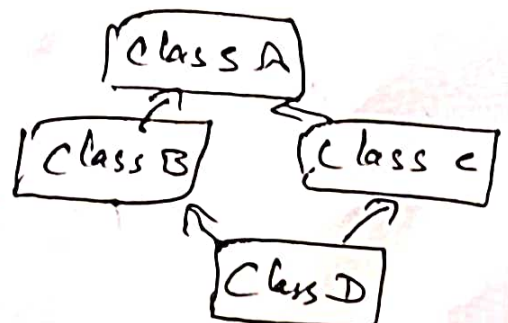
Hierarchical



Multiple inheritance is not supported in Java through class



Hybrid



3] Benefits of Inheritance :

To use Code reuse.

Inheritance can save time and effort as the main code need not be written again.

Inheritance provides a clear model structure which is easy to understand.

4] Inheritance example of Selenium?

ChromeDriver is inherited from the ChromiumDriver inherited from the RemoteWebDriver.

F3 :- Key Press

5] Method overloading in Java :-

If a class has multiple methods having same but difference in arguments/parameters it is known as method overloading.

Ex By changing number of arguments
By changing the datatype.

②

Class Method overloading {

```
public static void display (int a) {
```

```
    Sysout ("Arguments : " + a);  
}
```

```
public static void display (inta, intb) {
```

```
    Sysout ("Arguments : " + a + " and " + b);  
}
```

```
PSVMC)
```

```
{  
    display (1);
```

```
    display (1, 4);
```

```
}
```

O/P : 1
1 and 4

6] Method Overriding in Java :-

If Sub class (Child class) has the same method as declared in the Parent Class. It is known as Method Overriding in Java.

Usage of this :-

Method Overriding is used to provide the specific implementation of a method which is already provided by its Super class. It is used for runtime polymorphism.

Ex:- Without overriding

```
class vehicle {
```

```
    void run() { syso("running"); }  
}
```

```
class Bike extends vehicle {
```

```
    public static void main (String){
```

```
        Bike obj = new Bike();
```

```
        obj.run();
```

```
    }  
}
```