Dynamic Method Dispatch in Java

- 1. Dynamic method dispatch is also known as run time polymorph
- 3. This technique is used to resolve a call to an overridden method at runtime rather than compile time
- 4. To properly understand Dynamic method dispatch in Java, it is important to understand the concept of

Upcasting:

5. This a technique in which a superclass reference variable refers to the object of the subclas



In the above example, we've created two classes, named Animal(superclass) & Dog(subclass). While creating the object 'a', we've taken the reference variable of the parent class(Animal), and the object created is of shild class(Dog).

Example to demonstrate the use of Dynamic method dispatch :

- -> In the below code, we've created two classes: Phone & SmartPhone.
- -> The Phone is the parent class and the SmartPhone is the child cla
- -> The method on() of the parent class is overridden inside the child cla

-> Inside the main() method, we've created an object obj of the Smartphone() class by taking the reference of the Phone(

> When obj.on() will be executed, it will call the on() method of the SmartThone() class because the reference variable obj is obuting towards the object of class SmartPhone().

Dynamic method dispatch is also known as run time polymorphism because its called because it depend on run time not compile time that which method will be called

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