known as subclass.

Java Brogramming Inheritance in Java Roblem Statement: Write a program in Java showing hierachical inheritance with base class as employee and derived class as Full time Employee and Intern Employee with method Display Salary and Calculate Salary in derived classes. Calculate galary method will calculate as per increment given to builtime and inter Employee.... -> Objective: To study Inheritance in Java To study why use Inheritance To study Types of Inheritance Theory: Inheritance in Java is a mechanism in which one object acquires all the properties and behaviors of a parent object. Super class: The class whose features are inherited is known as superclass. Subclass: The class that inherite, the other class is

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| | Reusability: Inheritance supports the concept of "reusability" i.e. when we want to create a new class and there is already a class. |
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| | "reusability" i.e. when we want to create a new |
| | class and there is already a class. |
| | in the second of |
| → | Advantage of inheritance: Can minimize the length of duplicate code in an application. |
| a | Can minimize the length of dublicate code in an |
| | application. |
| b) | Redundancy of the application is reduced. |
| c) | Redundancy of the application is reduced. makes code more flexible to change. |
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| \rightarrow | |
| | Lypes of Inheritance: |
| 1. | Single Inheritance. |
| | Multilwel Inheritance |
| | Hierarchical Inheritance |
| | Multiple Inheritance |
| | |
| \rightarrow | Conclusions: |
| | |
| | Thus, we have successfully implemented usage |
| ti er da i | of Inheritance in Java, |
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| | FA0'5: |
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| | To multiple inheritance who attack in Taur ? |
| 1. | Te multiple inheritance supported in Java? |
| , i | How is it achleved? |
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| | |

Ans

Multiple inheritance is a feature of an objectoriented concept, where a class can inherit properties
of more than one parent class. The problem occurs
when there exist methods with the same signature
in both the superclasses and subclass. On calling the
method, the compiler cannot determine which class
method to be called and even on calling which class
method gets the priority.

Java & supports default methods where interfaces can provide a default implimentation of methods. And a class can implement true or more interfaces.

2. Ans What is Is-A relationship in Java?

A relationship in Java means different
relations between 2 or more classes. - For en, if a
class bulb inherits another class Device, then we
can say that bulb is having is - a relationship with
Device, which implies Bulb is a device.

3. Are constructor and instance initialization block inherited to subclass?

Any

Constructors are not members, so they are not inherited by subclass, but the constructor of the superclass can be invoked from the subclass. The instance initializer block is invoked at the time of object excation.