Name - Ameya Barapatre RO11 NO-06 SF-DS SARASWATI Education Society's PAGE NO.: SARASWATI College of Engineering DATE: Experiment No- 09 Aim - To write a program on multiple inheritance Resource Required -> Pentium W, JOK, Pointer Theory -Multiple inheritance is one of the important features of OOP. When a girale child class tries to inherit the properties of the multiple parent class it is called multiple inheritance. Class 1 C1938 2 (C)988 3 Multiple Inheritance In the above image we can see that the sublass 'class 3' tries to inherit properties of both the parent class 'class 1' and 'class 2' The Pooblem arises when both parent classes have too the same methods then the compiler gets confused about which method to call

ano Her

SARASWATI Education Society's PAGE NO. SARASWATI College of Engineering DATE:

PAGE NO.:

Why multiple inheritance program in Java is not supported? Multiple inheritance program in jour is not Possible to reduce the complexity and make the larguage more simple. (class A class R method : test () (method: test () rigss C which test method to call? In the above image, we can see that we have to two parent classes 'class A' and class B' and both have the same method test now if we extend both the parent close in the same child class then the question arises what which test method to call in child class How to acheive Multiple inheritance in jour Using the interface and default method: We can a cheive multiple inheritance in java using the interface and default method. After this footure a class can inherit overrible the superclase method in the subclass.

SARASWATI Education Society's PAGE NO DATE:

PAGE NO. : ___

	Java aloes not support multiple inheritance.
	through classes to avoid the complexities and
	ambiguity that arise particularly the
	" Diamond Problem", whereas a class issues
_	from two chases that have a common
	ancestor. However jour allows multiple
	inheritance through interfaces, enabling
	This decises maintains simplicity white
	la Housing flexibility as inheritance interfaces
	only define method signatures without
	implementing behaviour, thus avoiding conflicts
	only define method signatures without implementing behaviour, thus avoiding conflicts in method definations.
_	Conclusion -> Thus we have successfully
I	implement jour multiple.
ľ	
Ī	Slamteke - 1110/24
	27 ((10)-7
I	
\parallel	
#	
\parallel	
\parallel	
#	
#	
#	
**	