	Homework Questions of 2nd April 2023
QI	Why is multiple inherutance not supported in Java?
	Java does not support multiple inheritance in classes because it can lead to diamond problem.
	which was discussed in today is class I we fixed - it with the help of scope resolution operator.
7	Hence in Java, rather than to solve the
<u> </u>	diamond problem by some complex way, it is omitted as same thing can be replicated by other ways also.
<u>0</u> 2	Which operators can not be overloaded?
	The operators which can not be overloaded
	Ternary operator (?:), size of, scope resolution- oberator (::), class member selector (.) operator,
	member pointer selector operator (.*), object  type operator (typeid), assignment operator (=),  function call operator (()), subscript operator([])
	arrow operator (->).
	It is important to note that = , (), [] & -> - can not be overloaded using friend function but - can be overloaded using member function.
Q3	Overloading << & >> operators in C++.
	Object & CIR 15 15 ream class. The overloading are present in 10stream class. The overloading of these operator is not possible by the

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	the member function 4 we have to make
	it buiend function of the class.
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	Code
100	undersonal standarder to my that the manufacture
ry 3 ·	class (or &
J. J.	string name
	publice: also helkel publices
	it all winder all additional accounts
21	Friend istream & operator >> (istream 4 input,
-1	Card (1);
	Friend ostream 4 operator << (istream & output,
	Car & c1);
	Shahadren and tim no and peace dudly E.
	the promise which can not be every and
	istream & operator >> (istream & input, Carl c1) {
side li	cout << "Enter name of car";
. Xetter w	input >> Cl.name;
3 =	return input
7 7 7	acheamil about a (acheamil )
1. 1 5.41	ostream & operator << (ostream & output, (ar & c1)}
	output << cl-name;
	return output;
4	31 real topical money later to the contract of
	and the sad of the sad
	main () {
. +	(ar cli
( )	cin >> cli / Won't give error
viá I	cout << cli
	9
	and all and the second of the

	now the question that comes to our mind that
F1	why we need to make it found function. The
	reason is because name is a private variable &
	by making function foriend, it can access the
	private items of the class.
	Why we can't do operator overloading with the
	help of member function?
	The reason is that cout & cin is not the
4	Objects of the Care (owe custom made class).
	input parameter
	cin >>(1)
	cout <<((c1))
	input parameter
	1
	Internally, working as  operator.>> (cin, ); -> cin >> ci)
	operator. << (cont, ); -> cont << <1;
	Why we are returing at the reference level in
	the function?
	Reference won't be creating the copy. Moreover
1	Reference won't be creating the copy. Moreover if we use cin like protobject cin>>c1>>c2>>c3>>xi of class
	(in>>C1>>C2>>C3>>x) of class
	Cin
	cin (1st return); no need to
	cin (2nd return) I maintain the
	cin>>clis copy of cin again dagain.
	cin>>c2; again dagain.
	(in >) (3)
	cin>>>2) 3 Already available & noneed of
	overloading
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