7. *-		
	Name: Siddharth Pardys Date:	7-10-20
		007
		74 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Ams3	3 A for friend class is a class	that can access
	the private and protected members of	
(2)	it is declared as friend. Friend	
-	When we want a particular class	a to access the
	private and protected members of	
1		
	Example for friend class:	7 Z
,	# include = iostroam >	
	with namespace state	11 8 ₀ ² n
	CONTRACTOR OF THE PARTY OF THE	1
		3,
	# include < iostream. h >	
	# include < comio. h >	
		, W
	Class X	
	\$	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	private: Char ch = A;	
1 2 2	int num = 11;	
	Dublic:	i de la companya de l
	friend class A;	
	2:	
Sundaram	LOB EDITORPONIA HER	

Name: Siddenth Pandya Date: 7-10-20 s display (x ob) Gut << ob. ch << endl; cout << ob. num << end); void main () x obj 2; doj 1 - diplay (doj 2); getch (): Output: A Class A can access the private and protected members of class X. In this example we are passing disject as an argument to the function. FOR EDUCATIONAL USE

	Name: Siddharth Pandya Dale: 7-10-3	20		
- · , · · · ·	Roll No.: 23 Subject: DOP			
	The purpose of friend class are:			
7	T- ()			
	It is purpose is limited Too many	function		
	or external classes can be declared	on friend		
	language the value of mith protected or p	twate It		
	lessens the value of encapsulation of s	epirale		
2)	2) Friend is not mutual. If class A is a for a B, then B doesn't be come a friend of A			
	of B, then B down't become a briend of A			
	automatically.	0		
	The state of the s			
Ansi				
	used in virtual inheritance in a w			
0	prevent multiple instances of a q	than class		
	appearing in an istant inheritance	verarchy		
·	when using multips inheritances			
,	an and a			
	example:			
	# include < io stream, n >			
	# include < conio. h >			
	class Class x			
Ang The Land	E public: inta;			
(Sundaram)	FOR EDUCATIONAL USE			
	-/ 11			

Name: Siddharth Pandya Date: 7-10-20				
Roll no.: 23 Subject: ODP				
Class Class & Y: Wirtual public Class X	Class Class & Y: Virtual public Class X			
Public: int b;				
By the state of th	7.			
and the state of t				
Class Class Z: Virtual public Class X				
Z - t - c ·	1.			
public: into c;				
2;				
class ClassD: public Class Y, public Class Z				
\$				
public: int d;	public: int d;			
a the state of the second of t				
The state of the s				
Void main ()				
3				
Class D obj.				
u attend 31				
doj. 10 = 10; // statement 3;				
daj 100; 11 pure				
doj b = 20;	The state of the s			
exercise;				
ely', C = 30;				
doj od = 40; FOR EDUCATIONAL USE				
LE MI I- MI IVALLE	5 34			

Name: Siddharth Pandyon Date: 7-10-20 Subject: 00 P Roll No. ! 23 cout << \n x \alpha : " < \ obj. a; Cout << " << obj. b; Cout << " << obj. c; Cout << " << obj. c; 29 Output ; 001 7:--enly one copy of Ches & therefore statement 4 will overwise the value of a, given at statement 3 Virtual base Classes in a way to save spaces and around ambiguities in class hierarchies that uses multiple inheritances. When a have class is specified as a virtual base, it can get as an indirect base more thous once Without duplication of its data momeber.

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(Kundaram)