

Q.2 Explain the concept of access specifies

-> Access specifier is concept used in class to limit the access of characteristics and member function.

> can inharit anether dass. · There are three Access Specifiers: ((++) o Types of Inheritance:

1. Stagle level

- Public
- 2. Private laval Harm .
- 3. Protected signism .E

class members

- · public · If we write the [code] using public [access] keyword then we can access those data anywhere from [codes program. of class to the derived das.
 - o private This is an default access specifier. Which specifies that we can access data within the class only. cannot accessed outside the class.

3. Multiple - Tree or more deds

protected to provide access to the child class ove can use protested access Specifics.

100	what is difference between private & protected
4.5	access & difference between private =
_	access - Specifies.
_	members
-7	· Private - If we declare class members
_	using private keyword then it can be
	accessible por only those class only. we cannot
	access it out the clous.
341	distance of the state of the second
	· Protected - If we declare class members
	asing protected they it can be accessible
	only for its derived closs.
	\$ 06130 BOD
	o for- eg- >
	The Resemple - And State
	class Demo g
	private: 2. April 200
	int d;
	protected:
450	o pecasolist tos access Specifics there
	pemo 13;
	class Hello : public Demo &
	public: stoling
	cout << " value of b: ", b << end 1;
	3;
	of Public lopesitance: amount
	int main () &
	int main () { Demo obj:
	obj.a: 11 NA
	obj. b: 11-A
	:sudue:
	in one of the As

it is not writing explicitely. . - Private - is the default access specifier. ASTRONO DOS LAMB COMO SERVICIO VICE MÁSTICOSTO · If we do not write not any access opecifier then it is considered as private member of class. class Demo & int a; // private Access what is the Inheritance according to access specifies9 9.5. o According to the access specifier there are 3 Inheritances as: 1. Public Inheritance
2. Private - Protected Inheritance 3. Protected Inheritance b acend of Public Inheritance: - public members of Base dass becomes public members of derived dows. ofor eq - class Base & public:

3: int A:

	Page No.
	Date
class perived : public Bases.	riestq=05 59
. II A is accessit	ble
and medicale into promoco	
- Private members of Base car	nnot be accessible
to derived 2200 2200	-
- protected members of Base co	in be accessible
to derived. Days man 2200	
2. Private - it makes the protected	I and public
members of base class pr	ivate [inaccessible)
to derived class.	
· Example - dass Demo	g. mustine
The state of public sons	celline
int d:	inhera
protected:	
int b;	
meticada - 14 ittes meetitiete meesitem	B. Much
class Hello: private pem	0.000
nds on the convenes is also had	depe
{ II a 4 b Not asses	sible
3:	The state of the s
) '	
, 3. Protected - Public 4 protected	members of Base
become protected to Derived class.	5. 1/8
etail . Exolain the distance of	k Mi
class Base Standing & San Comment	the ke
public:	
int a;	***
3;	
110 Dale	
class Devived: protected Base	5
class Dell II Accessible	a y;

Q.6 Explain the constructor and destructor

calling sequence in case of single level, multi
nevel and multiple inheritance.

J. Single Level- In Single level, constructor of

Base class [constructor] will be called

Pirst then constructor of derived

class gets called.

destructor of Derived called first then destructor of Base gets called.

2. Multilevel - constructor and Destructor

calling sequence is same as Single level

Inheritance.

3. Multiple - In case of multiple inheritance, constructor of Base class calling depends on the Sequence of Base class & destructor as well.

ode Snippets and explain its internals working in detail. Explain the type of Inheritance in the below code Snippet

chass period : protects

a pocessible a 4.

		1		
9.7	class Base	1205 3 -5	class d	erived: public Base
9	\$ public:		& public	
-	int i:		int	
_	float f;		doub	le d ;
_	Double d;			
	void funi	do lect .	4. 1	31 120/2
	53	14		
	void gunes	1		
	2 2 3	14		
	3:	6		
	540	1	retu	rn o:
	348	3	3.4	7208
	o object Layout	of a	above code	snippet.
	Xbankad		dobj -:	
1	bobj	23/10/	1, 5000 3	villa as -
	100 i	10830 108	as sast	
16999	108	116 cha	to themor	
Bookson	million 1 d	120	have 2 d	
Indian.	Base	1/28	have a	Derrived
has		Toward wat	Derived	MAURYAN .
- 734	o in above cod	e single	level int	peritance is used.
	encione the services		closs i	- periked
100	· Explanation -	· In abo	ve code,	Base is parent
	alacs and	derived	is a	child class.
-5	and ined inhe	rit pr	operties o	f Base class.
13.	0.00 01000	bave	three d	ata mempers 4 two
	1 1 minimes 1	nd Der	ived have	initially 2 adty
	- mboxe 1	one met	thod in	T. TRIE
	As Derived	int main() derived dobj; derived dobj; return o; dobj for the properties of the		
	data memb	ers be	ecomes +	que 4 total three
	1.			
	nue elas	is of	16 byte	and Derived
16	- Base 21005	as it	inhesit	Base. [16+12].

Ag. Draw object layout & class diagram of below code snippet and explain its internal working in detail. Explain type of inheritance in the below code snippet. class Diagram & object Layout dobji dobj 6065 300 309 310 320 Base 328 Devived 332 · Working :- idob in above code. Three classes are used/ defined as Base, Derived and perived X. Base consist of 3 characteristics and 2 method Derived have 2 characteristics & 1 behaviour initially Derivedx have I characteristics & I behaviour initially. perived class derived from gase class and Derived X class derived from derived class. - perived class inherit properties of Base therefore no of characteristics & behaviour becomes 5 & 3 respectively. - Derived x class inherit properties of perived .. no of pata majoers of methods becomes 6 & 4 respectively. size of Base - 16 bytes perived x - 92 bytes

o <u>Multilevel</u> Inheritance is used in above code.

NOTES

4.10 D	raw o	bject 1	ayout & a	lass Diagram	of below
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				ince is associa	
		B	ase		
	deriv	ed 1 /		derived 2	
		-	*	3031000 2	
0	class	Base	will shar	e the properti	es
	with	Derived	1 4 Desi	ved e class.	
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104		i	204	i 300	
101		f	208	F 30	
116		d	216	d 314	
			220	~	
			224	4 32	
			24	, 32	
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				m consideration	
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