tombalish of the chapt bed sloud (too to correct (e bredph (ASSIGNMENT 831 ribert is the difference between poolic & mixale Heress spec Refer Assignment in Gr 440-552000 - CHOCOORY, and librat is detail Access specifics t for elasses he default access specifies is private The detault excess specific is public

Oi] Explain concept of Inheritance & what one types of inheritance 91c to the architecture? Refer Assignment 13 06 Types are to Architecture: 1) single level 2) Multi level 3) Multiple level 4) Hierarchical 5) Hybrid One Explain concept of Access specifier in detail Refer Assignment 11 Q7 93] What is the difference between public & private Access specifier Refer Assignment 11 97 Program: access-cpp 94] What is default Access specifier 1. for classes: The default access specifier is private Eg: class Myclass ? int a; 1/2 is private by default

The default access specifier is public struct ? int a; //x is public by default

as what are the types of inheritances are to access specifiers Inheritance can be categorized into three types based on the acress specifiers used to derive a class from its base class: public, protected & private inheritance. 1. Public Inheritance: public members of the base class remain public in the derived class . protected members remain protected. private members of the base class are inaccessible K! closs Base { public: inta; motested: inty; private: int 2; 3; class Derived: public Base } 11 2 is public 11, y is motested some or the minds of a minds 11 z is inaccessible 2. Protected Inheritance: Base dass members: Public & protected members of the class become protected in the derived class. mivate members are inaccessible Ex: class Derived: protected Base? 11 x by are motected 11 z is inaccessible

3. Private Inheritance:

Base class members:

public & protected members of the base dass become private in the derived class

private members are inaccessible

Ex class Derived: private Base ?

Ex class Derived: private Base ?

1/2 2 y are private

1/2 is inaccessible

96] Explain Constructor & Destructor calling sequence in case of single level, multilevel & multiple Phheritance.

property members accorded

Holed Inheritance

oldizensona one credovers stovices

1. Single level & Moltilevel

Multiple Level:

Constructor & Destructor colling sequence depends on sequence of Enheritance

Public 2 protected treaters of the class become protected in the

and Draw object Layout & class diagram of below code snippets & explain its internal working in detail. Explain the type of inheritance in below code snippet.

mance	bobi.	Code simple.	
104	0	Base :: i	characteristics: i, f, d
108	0	Bave:: \$	Repariners +
116	010	Bose :: d	Behaviours: fon(), gon()
200	dobj		- K-1
204	0	Baserri	characteristics: i, 7, di, d
208	0	Base: 1	
216	0	Bose :: 2	Behaviours: fun(), gun(),
220	0	Denived !: i	30n()
228	0	Derived !! d	icosod o eo

It is a type of single level Inheritance When creating on object of Derived (dobj):

- a) Constructor of Base class is called 1st to initialize inherited members.
- b) Constructor of Derived class initializes its own member

Os] same as Or

The code displays Multiple Inheritance

Derived class inherits base: L base 2

Object of Derived (dobj) is created: Calling Sequence

1st - constructor of base:

2nd - constructor of base:

3nd - Constructor of Derived

100	dobi	inlika iko 0
104	0	baserssi
108	0	baser: 7
112	0	basez:: j
116	0	basez : d
120	0	Derived::i
123	0	Derived: d

characteristics:
i, f,i,g,i,d

Behaviours:
30n(), gun(), sun()

Q9] Same as Q7

100

104

This example shows 1909 tilevel Inheritance

bose :: i

base :: 7

108		93
200		_ (jdob
204	6	base:: i
208	0	base :: \$
	0	Derived !! i
212	0	Demived :: d

0

0

characteristics:
inti, float f
Behanoon:
funco, gunco

characteristics:
inti, float f, inti, do Ubled
behaviours:
func), sunco, qunc)

300 base :: i 0 304 base !: ‡ 0 308 Derived !! 0 312 Derived :: d 0 320 Deniredxt 0 324

Characteristics:
inti, float f, inti, dolbled,
int k

Behaviours:
funco, gunco, son(), runco

Here derived is inheriting base class & further Derivedx is inheriting Derived class.

All the characteristics & behaviours of base doss are passed to Derived class & further all the characteristics & behaviours of Derived class are inherited to Derivedex class.

aro] some as Q7

100		_
104	0	bose:
108	0	base::f
116	0	basend

characteristics:
inti, float f, dolbled
behaviours:
fun (), gun()

200 +		
204 _	0	base::1
208	0	base::1
216	0	basend
220	0	Derived 1:19
224	0	Derived ::

Characteristics:

i, f, d, 2, y

Behaviours:

fun(), gun(), run()

300		
304	0	
308	0	
316	0	
320	0	Derived 2::1
324	0	Denvedz:: K

Characteristics:

i, f, d, j, k

Behaviours:

func), gun(), (son()