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Assignment - 14

instance variable of class?

Ans

In the object oriented Programming & in order to achieve encepsulation we create a class

A class consists of two important things characteristics of class & behowiours of

characteristics of class are divid into two
parts or Static & non-static characteristics

class variebles.

instance voniables.

gets allocated irrespective of object creation

memory for static variables get allocated

Only once.

- Memory for non-static characteristics gets
allocated for object seperately, when
object to of that class is created.

Hence: the called instance variable of class.



Q2] what happens if we remove & operator in case of copy constructor? The loperator inside the copy constructor is constructioned as a reference operator It refers to the object passed in the parameter. 3] If & operator is remove, it may lead to recursive calls. Q3] What is a meant by default of argument? I there are two types of arguments in a function as a regular compulsory argument & a default option argument. I Default is a type of argument which is optional 3) If we skip the default argument parameter, white Calling the forction then its default value gets considered. class Hinclude Lios Weam. 4) using vamespace std; float specientage (float fmarks, float fout-of = 100.0) float frementege = (fmarks / 100 to ut-of) * 100) return f percentage: flow france = 0.05;

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float fans = 0.0f;

fans: calculate (86, 100); cout << "The percentage is: " << fans << endl;

fans = calculate (86); // 100.0 gets considered
by default

cout << " The percentage is : " << fans << endl;

fans = calculate (8320.0, 420.0)

Cout « The percentage is: "La fois « endl;

return 0;

4

In the above application, the calculate function accepts two parameters as marks. &

The marks parameter is compulsory &.

If we skip the out of parameter, then

its default value gets considered as 100.0.

One more rule is that , default arguments

should be end of function arguments,

else (i.e & should be the last argument) else

compiler will genenerate an error.

04]	What is the difference between static & non-static
	Characteristics of a class?
Ang	The second secon
0	Class consite of two things as charactersty
	& behaviours
2]	characteristics is of two types as
	Static & non-static Characteristics
	and the same of th
3)	Memory for non-static characteristics gets
	allocated when object of the class is
	created, & for each object seperately.
4]	Memory for static characteristics gets allocated
	irrespective of object creation.
The State of the S	memory for static characteristics gets allocated
	only once.
, 5	Cauca
	variables.
6	
	variables
-	1 ode
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100	CONS CIGIS.
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	outside class.

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05]	
	pointer from constructor,
Ans	constructor,
	Carried Michael Carried
	The same of the sa
	The state of the s
œ63	Mai
w 6 J	What is lifetime of static characteristics of
Ans	Class;
100	Lifetime of Steetic characterismes of
	class is for program.
07	Declare Lide boy
44	Explain the concept of Parameterized
Ang	Constructor with default arguments.
3	Manager to a side
- 4	concept of default argumente
2	in case of congrictor.
2	It we create a parameterzed constructor
	which uses default argument, then that
	type of constructor is called as parameterred
	Constructor with defeatault angument
A Section	Example:
	Class Demo [
	8
	int :
	int inum $1 = 0$, inum $2 = 0$.
	Demo (int i Value 1= 10) int ivalue 2 = 20)
	2
	inum1 = iValue1;

inum2 = iValue2; cout <<" Value of inum1 is << inum1 «cendle contect value of inum 2 is cc inum 2 ccenty void obj1 .display(); // inum1 = 10, inum2 = 20 Demo objecto); Obj 2 · display (); // inum1 = 90 , inum2 = 20 Demo obj 3 (8000, 10000); Obj3, display(); //inum1 = 9000 / inum2 = 10000 How to initialize static characteristics of class? gtatic characteristics are initialized outside the class using scope resolution operator 2) Stutic characteristics can also be accessed Quithout creating object & using class now & scope resolution

void display ()

Demo obj1;

returno;

Example;

010]

4:

int main ()

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class Demor
5
public:
int : i Nom1 = 0 , i Nom 2 = 0;
Static int iNum3 200 ;
Demo (int ivalue 1=10, int ivalue = 20)
2
iwom1 - iValue1;
iNum2 = ivalue2;
3
3;
int Demo: iNum3 = 35; // Initialising Static
Variable.
înt main ()
{
cout « Value of static variable is " « pemo: iNum3
Demo obj 2 (10, 200);
return 0;
3

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	of class? Explain with exemple.
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@ 9]	Can
0.93	con we access private non-staitie characteristics
	of class from static method? Explain
	with example,
Barrie	