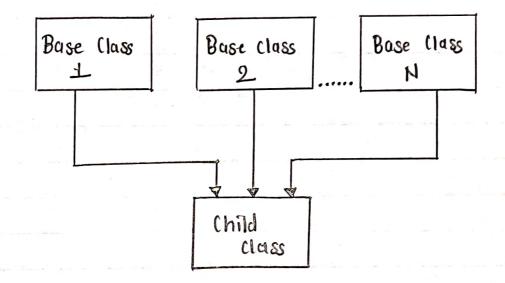
Date:

Aim:

White a C++ program to demonstrate the concept of multiple inheritance along with an example.

Diagram:

General Representation of Multiple Inheritance:



	Date:
	Write a (++ program to demonstrate the conce
	pt of Multiple inheritance along with an
	example
Theory:	About inheritance: It is a key feature of Object
	oriented programming (DOP) that allows one class
	(called the derived class) to inherit attributes &
	methods from another class (called the base class)
	This promotes ecusability & hierarchical classification
	Types of inheritance in C++:
	*) (++ supports 5 types of inheritance:
	A) Single Inheritance
	B) Multiple Inhentance
	c) Multilevel Inheritance
	D) Hierarchical Inheritance
	E) Hybrid Inheritance
	ARISE & SHINE
	About Multiple Inheritance:
	Multiple inhemitance allows a class to form more
	than one base class. The derived class inherits
-	the properties & henaviours (methods & variables)
	of all the base classes. This can be useful in
	modulling complex felationships, but it can also
	introduce complications such as the Riamond
	Problem.
ST. VINCI	ENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR - 441 108

	Syntaxe of multiple inherotance:
	class Base 1 &
	1/members of Base 1
	3
	class Base 2 {
	11 members of Base 2
	11 Derived class inherits from both Base 1 &
	Base 2 class.
	class Derived: public Base 2 &
	1 members of derived class.
Code:	1 code to Mustrate the concept of multiple
	inhentance.
•	
	#Include <iostman></iostman>
	Using namespace std;
	The second secon
	class Engine { // Base class
- 1 - 1	public:

	L . () {
	Engine () {
	Cout << "Engine io tendy" << endl;
	Void start () f
	cout << " Engine Started" << endl;
	}
	}_
	9
	class Body { // Base Class 2
	public:
	Body () { /
	cout <<" (our body is ready" << endl;
	}
	void paint () {
	cout << " (or body painted" << endly
	11 Derived 11985 & SHINE
	class Car: public Engine, public Body &
	Public:
	(are () {
ACT TO STATE OF	cout << "(our is fully assembled" << end!
=	April 1997
_ = "	void drive C) {
= =	Start ():
	paint ():
ST. VINCE	ENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR - 441 108

Aller " Mar & mager " tree thes "Interes sound" so the & pril salt . I Hes ser # How 22 Letoury Plant out " 20 th w I plost suther, pur it stiding ? such a lo Conclusion: Hence, according to the code & it's correct output the concept of multiple inheritance is studied & executed successfully. Li Co sviel him.

	rout << " (ax is driving" << endl;
	};
	int main () {
	my love drive ();
	retum 0;
Output:	Engine is ready Care body is ready
	Car is fully assembled Engine started
	Cor body painted Lor is driving
	ARISE & SHINE
Conclusion:	Hence, according to the code & it's com. Correct output the concept of multiple Inheritan re is studied & executed successfully.
	, we.