* Assignment . 2 *

Title: -

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personal Information System using constructor, destructor static member function, friend class, this pointer, inline Code and dynamicallocation

problem statement :-

Develop an object oriented program in the to create a database of the personal information.

8ystem containing the following information. Dos, Bloodgroup, Height, weight itnsurance policy, Number, Contact, address, telephone number driving usense no. etc. Construct the database with switable members function for initializing and destroying the data Viz constructor, default constructor, Copy, destructor, 8 tatic, member function, triend class, this pointer, incline code dynamic memory allocations

process and delete as well as exception Handling

Presequisites! -

objet oriented programming.

objectives! To learn the concept of a Constructor dyand constructor, copy, destructor static member function, friend class, this pointer, in line code and dynamic memory operator new and delete.

Theory !-

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constructor; - Aspecial method of the class that will be automically invoked when an instance of the class is created is called as constructor following are two the most useful feature of constructor.

- O It is used for initializing the value to the data monitor member of dass.
- De It is that whose name is same as the name of class.
- 6) It gets automatically called when an object of class is created.
- (1) It never have a return type
- 6 It is of a Default.

 b) parameterized

 c) Copy.

declaring the destector.

Distructor:

Used for assigning some values to data member and for assigning and some values to data member may also used some memory so that to free up this memory the destructor is used which get automatically called at the end of programme.

We have to use a titled symbol for

Static Members - A class can contain Static member either data or functions.

A static member variable has following properties= 6 It is initialized to zero when the first object of its class is created Noother, initializationis permitted

entire doss and ishared by all the object of dass.

6) It is the visible only within the class but

it lifetime is the entire program.

A static member function has following properties. O A static junction can have excess to only other static member dedared in the 8 ame class.

@ A static function can be called using the class name instead of its object sname.

Friend function:

In principle, private and protected member of a dass cannot be accessed from outside the same doss in which they are declared. How--ever this sule does not affect friends. Priends. are junction or dasses dedare as such and we do it by declaring a prototype of this external function within the class and proceeding it with the keyword friend

Friend classes Just as we have the possibility to desing afriend function, we can also define a das doss acress to the protected and private member First one.

pointers: - A pointers is a derived data type
that refers to another data variable
by storing the variable memory address return
and than data.

syntax: - Data type # ptr_var;

this pointer!

represent an object that invokes a member function This is a pointer that points to the object for which this function are called This unique pointer is automatically passed to a member function when it is called.

facilities: linux operating system. Ctt Higorithm:

step! - start

Step2: Read the personal information Step3: Print all information from database

step4: 8top.

Concept of constructor default

Constructor clopy Constructor, destructor, static

member function, friend class, this points inlin

Code and dymanic memory allocation,

Operator new, delete.