Object Construction and Destruction

(X) Class Constructor:

A class constructor is a special member function of a class that is executed whenever we create objects of that class.

The constructor is called everytime the instance of a class is created i.e., object is created.

- → Constructor is very useful for setting initial values for certain member variables.
- donstructor can be defined either inside the

outside class definition using class name and supper revolution (::) operator.

provate.

(X) Rules:

- (i): Constructor must have same name as the
- (ii) It doesn't have any datatype (not even void)

(x) Types of Constructor:

These are three types of constructors

used in class. They are as follows:

(i) Default constructor (iii) larametrized constructor (i): Default constructor:

- Default constructor is constructor not taking any argument and has no parametes.

I when the object is created, the constructor initializes the data member.

- Default constructor is provided by compiles in default

(ii): Parameterized Constructor:

- Parametrized constructor are the constructors that take arguments and coptain parameters

+ Parametrized constructor an be useful to set values to our dota members.

Tii): Copy constructor;

Take object as an argument and copies value of one object to another another.

Syntax: class-name constructor-name (4 object-name).

Note:

i) Anstructor overloading is possible and executable.

ii) If constructor is explicitly generated, the implicitly defined generated constructor is not provided.

(iii) To gain access to private members, use of getter and setters is done if it encapsulation process.

(iv) In copy constructor, we pass reference to the address.

(x) Destructor:

of a class executed whenever the object goes out of scope or whenever delete expression is applied to a pointer to the object of that class.

Syntax: ~ class-name():

-> It can neither return a value nor can take any parameters.

Tesources before coming out of program.

& Note:

- Destructor is used to avoid memory loaks. - Implicitly defined destructor clears' memory but if we have used DMA, we need to # uses destructor.

