12 Lecture - CS304

Important Mcqs

1. What is a static data member in C++?

a) A data member that can only be accessed by member functions

b) A data member that can be accessed by any function or method within the class

c) A data member that is unique to each instance of a class

d) A data member that is declared using the const keyword

Answer: b

How is a static data member declared in C++?

a) Using the const keyword

b) Using the static keyword

c) Using the public keyword

d) Using the friend keyword

Answer: b

How is a static data member accessed in C++?

a) Using the object name followed by the dot operator

b) Using the object name followed by the arrow operator

c) Using the class name followed by the dot operator

d) Using the class name followed by the arrow operator

Answer: c

Which of the following statements is true about static data members?

a) They are unique to each instance of a class

b) They can only be accessed by member functions

c) They are shared among all objects of a class

d) They are declared using the const keyword

Answer: c

What is the default value of a static data member in C++?

- a) 0
- b) 1

c) Null

d) Undefined

Answer: a

What is the scope of a static data member in C++?

- a) Global scope
- b) Local scope
- c) Class scope

d) Namespace scope

<mark>Answer: c</mark>

What is the lifetime of a static data member in C++?

a) Until the end of the program

- b) Until the end of the function in which it is declared
- c) Until the object is destroyed
- d) Until it is explicitly deleted

Answer: a

How many instances of a static data member are there in a class?

- a) One for each instance of the class
- b) One for all instances of the class
- c) One for each member function
- d) None of the above

Answer: b

Which keyword is used to access a static data member outside the class in C++?

- a) private
- b) public
- c) static
- d) friend
- Answer: c

Can a static data member be modified by a non-static member function?

- a) Yes
- b) No
- Answer: a