29 Lecture - CS201

Important Mcqs

1. What is a friend function in C++?

- A) A function declared inside a class that can only access public members
- B) A member function that can access private and protected members of another class
- C) A non-member function that is given access to the private and protected members of a class
- D) A global function that is restricted from accessing the data members of a class

Answer: C

- 2. Which keyword is used to declare a friend function inside a class?
 - A) friend
 - B) private
 - C) public
 - D) protected

Answer: A

- 3. Can a friend function access the private members of a class?
 - A) Yes
 - B) No

Answer: A

- 4. Which of the following is an advantage of using friend functions?
 - A) It simplifies the implementation of certain operations
 - B) It enhances encapsulation of class data
 - C) It improves program maintainability
 - D) It reduces code complexity

Answer: A

- 5. Which of the following is a disadvantage of using friend functions?
 - A) It reduces encapsulation and can make the program harder to maintain
 - B) It requires the use of complex syntax to declare and define the function
 - C) It can lead to security vulnerabilities in the program
 - D) It can only be used for simple operations and cannot handle complex tasks

Answer: A

- 6. Can a friend function be a member function of another class?
 - A) Yes
 - B) No

Answer: A

- 7. What is the access level of a friend function in relation to the class it is declared in?
 A) Private
 B) Protected
 - C) PublicD) It is not a member of the class, so access level does not apply

Answer: D

- 8. Can a friend function be overloaded?
 - A) Yes
 - B) No

Answer: A

- 9. Can a friend function be declared in the private section of a class?
 - A) Yes
 - B) No

Answer: A

- 10. Which of the following is an example of a scenario where a friend function would be useful?
 - A) To add two numbers together
 - B) To sort a list of objects
 - C) To calculate the distance between two objects in a class
 - D) To print the contents of a private data member

Answer: D