

# 29 Lecture - CS201

## Important Subjective

- 1. What is a friend function in C++?**  
A friend function in C++ is a function that is not a member of a class but has access to the private and protected members of the class.
- 2. What is the syntax for declaring a friend function?**  
The syntax for declaring a friend function is as follows:  
`friend return_type function_name(class_name &object);`
- 3. What is the difference between a friend function and a member function?**  
A friend function is not a member of the class, but has access to the private and protected members of the class. A member function is a function that is a part of the class and has access to all the members of the class.
- 4. Can a friend function be called without an object of the class?**  
Yes, a friend function can be called without an object of the class.
- 5. Can a friend function be declared inside a class?**  
Yes, a friend function can be declared inside a class.
- 6. Can a friend function be inherited by the derived class?**  
No, a friend function cannot be inherited by the derived class.
- 7. What is the difference between a friend class and a friend function?**  
A friend class is a class that has access to the private and protected members of another class. A friend function is a function that has access to the private and protected members of a class.
- 8. What is the use of a friend function?**  
A friend function is used to access the private and protected members of a class from outside the class.
- 9. Can a friend function be overloaded?**  
Yes, a friend function can be overloaded.
- 10. What is the scope of a friend function?**  
The scope of a friend function is global, but it has access to the private and protected members of the class.