39 Lecture - CS201

Important Subjective

1. What is a pointer in C++?

A pointer is a variable that stores the memory address of another variable.

2. How can you declare a pointer variable in C++?

A pointer variable is declared by placing an asterisk (*) before the variable name.

3. How do you initialize a pointer to point to a specific memory address?

You can initialize a pointer by assigning the address of a variable to it using the reference operator (&).

4. How do you access the value of the variable that a pointer is pointing to?

You can access the value of the variable that a pointer is pointing to using the dereference operator (*).

5. What is the difference between a null pointer and a void pointer?

A null pointer is a pointer that does not point to any memory location, while a void pointer is a pointer that can point to any data type.

6. What is pointer arithmetic?

Pointer arithmetic refers to the arithmetic operations that can be performed on pointers, such as adding or subtracting an integer value to a pointer.

7. What is a function pointer?

A function pointer is a pointer that points to a function instead of a variable.

8. What is a dangling pointer?

A dangling pointer is a pointer that points to a memory location that has been deallocated or freed.

9. How do you avoid memory leaks when using pointers?

You can avoid memory leaks by ensuring that you deallocate any dynamically allocated memory using the delete operator.

10. How do you use pointers to pass arguments to a function by reference?

You can use pointers to pass arguments to a function by reference by passing the address of the variable to the function and then using the dereference operator to access the value of the variable.