## 23 Lecture - CS201

### **Important Subjective**

#### 1. What is the purpose of the pre-processor in C programming?

Answer: The pre-processor performs pre-processing tasks such as handling pre-processor directives and including header files before the code is compiled.

#### 2. What is a macro in C programming?

Answer: A macro is a pre-processor directive that defines a text replacement that is expanded by the pre-processor.

#### 3. How is a macro defined in C programming?

Answer: A macro is defined using the #define directive followed by the macro name and its replacement text.

#### 4. What is the purpose of the #include directive in C programming?

Answer: The #include directive is used to include header files that contain function prototypes, constant definitions, and other declarations needed in the source code.

#### 5. What is the purpose of the #ifdef directive in C programming?

Answer: The #ifdef directive is used to include or exclude blocks of code depending on whether a certain macro has been defined.

#### 6. How is a macro undefined in C programming?

Answer: A macro is undefined using the #undef directive followed by the macro name.

#### 7. What is conditional compilation in C programming?

Answer: Conditional compilation is the process of including or excluding blocks of code based on certain conditions such as the target platform or the compiler being used.

#### 8. What is the purpose of the #pragma directive in C programming?

Answer: The #pragma directive is used to specify implementation-specific behavior or provide hints to the compiler.

# 9. What are the potential risks of using pre-processor directives excessively in C programming?

Answer: Overuse of pre-processor directives can lead to code that is hard to read, maintain, and debug. It can also make the code more error-prone.

#### 10. Can pre-processor directives be used in languages other than C?

Answer: Yes, many programming languages have pre-processor directives, including C++, Objective-C, and Fortran.