CMP 407 - Compiler

What is a compiler, interpreter and translator?

Advantages of having compilers over interpreters

* Compilers are faster for development
* Compilers are more secure
* There are different variants of compilers

1. Ahead of time compiler: it gives real time response
2. Just in time compiler: it makes the application run fast

Assignment: get a language and do a structure of the compiler it uses

* Multi parser compiler and single parser compiler
* Lexical analyzer: lexemes are characters of a particular language; it deals with the characters if they are available to the language
* Syntax analyzer: deals with the structure of the language if the wordings of the line are done appropriately. It is also responsible for Error handler:
* Semantics analyzer: deals with the grammar of the line of code. It makes sure what you are saying makes sense i.e. a string cannot be stored in a float datatype
* Intermediate code generator: code optimizer and so on
* We are using Java

At the syntax analysis stage, the code gets generated into a syntax tree and

Get the prefix o the code or question

Dynamic and static type

Regular expressions: strings, alphabets,

/d – numbers (0-9)

[a-z] – lower case alphabets

Project notice

* If you have 2 contact with tour supervisor it allows you for proposal defense
* We have to be seen with our supervisor

SIWES presentation

* What the document looks like, font TNR, 12, header 14 each chapter new page,
* Review 15 articles, date not more than 7 years, Referencing with Apa 6? caption under the image and over with table
* Code should be in appendix, and be in white background
* Use mendely plugin
* Scoring criteria: organization of work (following template)
* Dont use bullet points or alphabets only numbers and numerals
* The work must be justified and be nested as little as possible
* Be prepared for answers and you must be within your scope.

Chapter 1

* Background of study
* Aim not (s) and objectives (steps to use to achieve that aim)

Chapter 2

* Literature review

Chapter 3