PPL - Assignment - 01

Ans 2 :-

Natural Languages: • Can be easily understood and used by humans, but not machines.

- It is also creative and allow poetry, metaphor and other metaphor.
- It consists of sentences, usually declative sentences expresses information in a sequence.

Programming Languages :- • Can be easily understood and · by machines, but not people.

- Programming languages typically are not declarative but procedural, giving instructions to the machine to do something.
- Programming does allow some variation in style, but the meaning is not flexible.

Ans 3 :-

C++ programming language uses context sensitive grammar. As we cannot build the syntax tree by simply parsing through the file using a context-free parser because in some cases we need to know the symbol from previous knowledge to decide.

Eg:-   A*B;

Is this a multiplication expression   OR

Is this a declaration of B variable to be a pointer of type A.

Ans 4. He can define the operator precedence and the associativity in the programming language by using an **Operator grammar** and **Operator precedence** parser

- Operator Grammar is a grammar that reflects the correct associativity and precedence in its parse trees.

- An Operator precedence parser is a bottom-up parser that interprets an operator grammar.