Warning: mispellings or poor paper presentation will cost 25% of grade.

Directions: Submit a cover page of paper to include your name, language, and date. Include the questions along with the answers. And all questions must provide references used to get the answer. All programs must include a complete example of input, execution and output.

0.
   a. Date of first release of the language.
   b. Name of designer or designers.
   c. Is the actual language version you are using the original version? an extension of it? a subset of it? neither an extension nor a subset but a version based on the original language? Explain your answer.
   d. If not the original version, state the date of the release of the version you are using, as well as the date of the release of the translator (compiler, interpreter) you are using to write programs.
   e. Does the language have an standard? if so, state release date, and state whether the translator you are using implements the standard.
   f. If the language does not have a standard, list the documents you are using for the release.

1. Does the language have keywords or reserved words? List them. State the character set used for the formation of legal leximes (or tokens).

2. a. Describe the component(s) for the formation of a complete program.
   b. List all the compilation units.

3. a. Evaluate the language in terms of readability, writeability and reliability. b. Is it an all-purpose language (sufficiently general)? Support your answer with the existence or lack of language constructs.

4. Give 3 program examples:
   a. One that you can steal, but can also read, understand and explain. Produce an example of its execution. State clearly the input used in the execution and the output produced.
   b. Write one that is "representative" of the language application area.
   c. The third program is based on the paradigm of study chosen:

   For non-logical programming paradigm: write a program allows the user to manipulate information for a group of cars. The information of a car includes make, model, year, price. Users can add a new car, delete a car or modify information of an exiting car. Produces two sorts: the first in increasing order by year. The second in decreasing order by price. The sort must be implemented using quick sort.

   For logical programming paradigm: write a program that allows a programmer to perform set operations: union of sets, intersection of sets, difference of sets, complement of sets; implement also the operation XOR which takes two sets and returns a set with the elements in either set but not both; i.e. returns their union less their intersection. The program also supports the subset operation which yields true if left operand is contained in right operand; as well as the membership operation between an element (of the universe) and a set, and length of a set. Allow for the definition of a universe set; all other sets must be subsets of it.