<u>What is the only language computers understand</u>   **machine language**

web page applet is a helping program to a browser example Flash, QuickTime to view movies

What is **HTML** hypertext markup language is used to create web pages

XML Extensible Markup Language for organizing the content of a web page

1GL first generation computer language machine language written in binary is 0s and 1s

2GL second generation computer language assembly language used symbols LDA

above two are low level languages and must be written for a specific machine

Compiler a program that changes object code into machine language all at one time.

The languages below are high level and can work on any machine.

3GL third generation computer language English-like words, <u>is a procedural language, program tells computer what to do and how to do it</u>,

examples of 3GLs BASIC, COBOL, C

<u>BASIC:</u>(Beginner's All-purpose Symbolic Instruction Code) = Programming language developed in the mid 1960's for use as a simple, interactive problem solving language.

4GL forth generation computer language uses English-like words <u>but is nonprocedural</u>. Specifies what the program should do without explaining how

examples of 4GLs An example is SQL a query language, OOP, Java C ++

5GL fifth generation high level language used to create AI or expert systems programs

examples of 5th Gen language Visual BASIC, VB.net, Visual C++.net Delphi power Builder.

OOP Object oriented programming used in GUIs

flowchart a graphical diagram of the path of a program from start to finish

SQL Structured Query Language is the standard query language for relational databases. 47 bold

see the chapter for those of you interested in more detail on languages

brainstorming a good method for getting good ideas where members present ideas without criticism

DSS decision support system is used to support problem-specific decision making

<u>Artificial Intelligence</u> computers ability to mimic or duplicate functions of human brain

programming Languages a computer program used to program computers

Crowdsourcing giving a task to a large group of people