Python2

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Review of hardware software

Hardware things you can see ( some more easily than others )

-monitor

-keyboard

-mouse

-desktop

-inside

-cpu

-motherboard

-main memory

-secondary storage

Software

-Applications

-a program that performs a specific task

-Systems software

-Operating system OS (resource control, provides an interface to the end user

I/O – mediator between hardware and software

Programming

1.) High level languages

- human usage

- source code ( text authored by the programmer .py)

2.) Assembly ( low level )

- machine language

- hardware specific

- not easy to read

High level

Compiled

-c++

1. write source code
2. compile ( convert to machine language executable (.exe))

Interpreted

-python

write source code

installed layer of source code interpreter application

run source code through an interpreter

Designing a program:

-design

-write code

-syntax errors

-test

-logic errors

Unit testing, software requirements ( functionality required )

Pseudocode -> English code outline

Flowcharts -> visual graphical representation of your program flow

Algorithm-> set of steps of that will solve a specific task