## Introdução ao Processamento de Dados

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http://github.com/fsantanna/IPD

### Processamento de Dados



```
frase = raw_input()
print("----")
print(frase)

frase = raw_input()
print("----")
for i in range(1,5):
    print(i, frase)
```

print("---")

print("Oi Mundo!")

Palavras em negrito?

Indentação

```
# Include <stalo.h>
int majin(void)

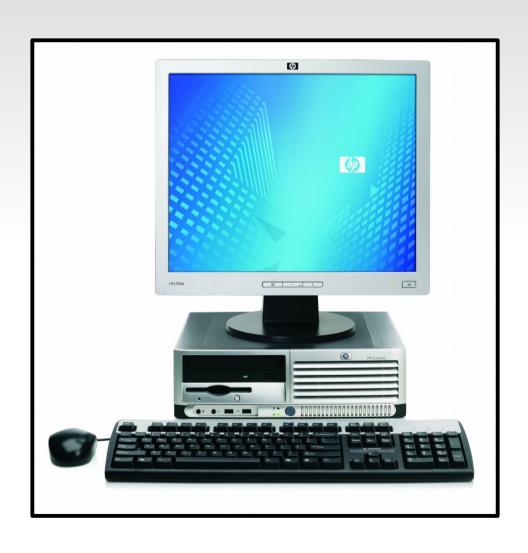
{
  int count;
  for (count = 1; count <= 500; count++)
    printf("I will not throw paper dirplanes in class.");
  return 0;
}

MICE TRY.

NICE TRY.

NICE TRY.
```

## Computador???





## Dispositivos de Entrada e Saída (I/O)



1 - DE ENTRADA (INPUT):



**TECLADO** 



Mouse



Joystick



Webcam



microfone



Scanner



Mesa Digitalizadora

2 - DE SAÍDA (OUTPUT):

MONITOR

CRT



Cristal Líquido



LCD



Projetor Multimídia



Impressora



Caixas de som



35

## Dispositivos de Entrada e Saída (I/O)









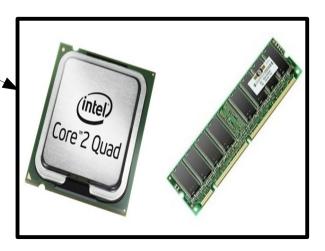
## Computador???











# Computador é Programável

**Hardware + Software** 

### **Hardware vs Software**

The main difference between hardware and software are as follows:

#### **Hardware**

- 1. Physical parts of the computer are called hardware.
- 2. You can touch, see and feel hardware.
- 3. Hardware is constructed using physical materials or components.



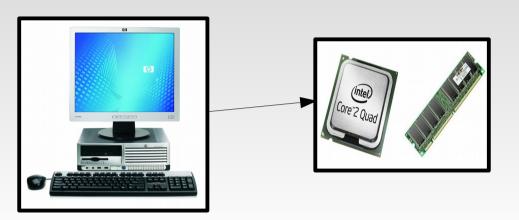
- 7. Hardware cannot be transferred from one place to another electronically through network.
- 8. User cannot make new duplicate copies of the hardware.

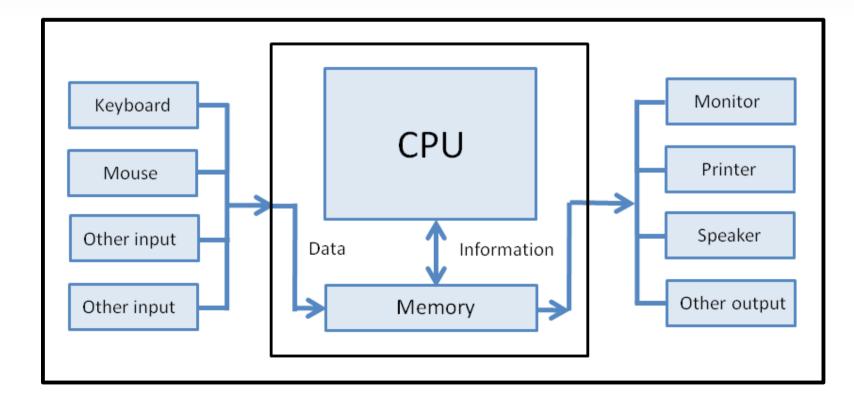
#### Software

- 1. A set of instructions given to the computer is called software.
- You cannot touch and feel software.
- 3. Software is developed by writing instructions in programming language.
- 4. The operations of computer are controlled through software.
- 5. If software is damaged or corrupted, its backup copy can be reinstalled.
- 6. Software is affected by computer viruses.
- 7. Software can be transferred from one lace to another electronically through network.
- 8. User can make many new duplicate copies of the software.



## **Computador!**



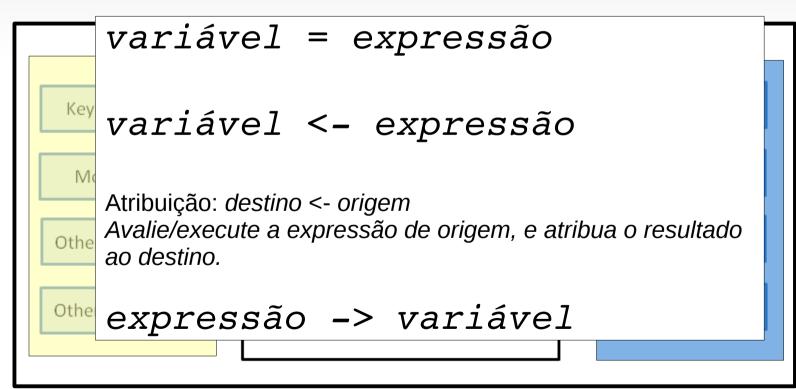


```
frase = raw_input()

print("---")

for i in range(1,5):

print(i, frase)
```



```
Negrito
(destaque para comandos primitivos)

for i in range(1,5):
    print(i, frase)

Indentação
(obrigatório em Python)
```