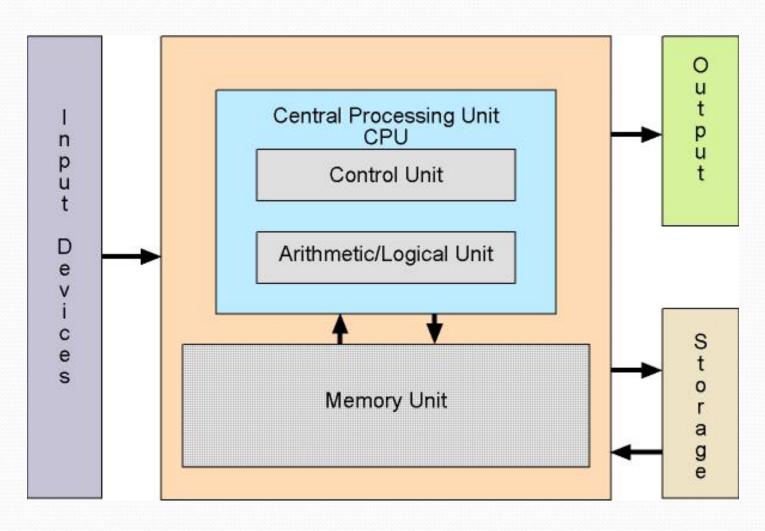
Introduction to Programming

Block Diagram of Computer



What is VI Editor

- "vi" is the standard Unix text editing program
- Several versions/clones of "vi" available. [elvis, vile, vim]
- Syntax: vi <option> <file name>e.g \$> vi demo\$> vi +90 demo
- vi filename: Creates a new file if it already exist, otherwise opens an existing file
- vi -R filename : Opens an existing file in the read-only mode
- view filename : Opens an existing file in read-only mode

Operation Modes

- 1. Command mode
- Saving the files
- Moving the curser
- Cutting and pasting the lines or words
- Finding and replacing
- 2. Insert mode: Insert text into the file

Press "ESC" key, it will take you back to the command mode

Getting out of "vi"

- :q- Quit out of vi without saving
- :q! Forcefully quit out of vi without saving
- :w- For saving the current file
- :w!- For saving the file forcefully
- :wq- For saving and exiting the file
- :wq!- For saving and exiting the file forcefully

Moving within a File

- k- Moves the cursor up one line
- j Moves the cursor down one line
- h- Moves the cursor to the left one character position
- I- Moves the cursor to the right one character position

Editing Files

- i- Inserts text before the current cursor location
- I Inserts text at the beginning of the current line
- a- Inserts text after the current cursor location
- A- Inserts text at the end of the current line
- o- Creates a new line for text entry below the cursor location
- O- Creates a new line for text entry above the cursor location

Deleting Characters

- x- Deletes the character under the cursor location
- X Deletes the character before the cursor location
- dw- Deletes from the current location to the next word
- d^- Deletes from the current cursor position to the beginning of the line
- d\$- Deletes from the current cursor position to the end of the line
- D- Deletes from the cursor position to the end of the current line
- dd- Deletes the line the cursor is on

Change Commands

- cc- Removes the contents of the line, leaving you in insert mode.
- cw- Changes the word the cursor is on from the cursor to the lowercase w end of the word
- **r** Replaces the character under the cursor, vi returns to the command mode after the replacement is entered.
- R- Overwrites multiple characters beginning with the character currently under the cursor.
- s- Replaces the current character with the character you type
- S- Deletes the line the cursor is on and replaces it with the new text.

Copy and Paste Commands

- yy- Copies the current line
- yw- Copies the current word from the character to lowercase w cursor is on
- p- Puts the copied text after the cursor.
- P- Puts the yanked text before the cursor.

Word and Character Searching

- ^- Searches at the beginning of the line
- Matches a single character
- *- Matches zero or more of the previous character
- \$- End of the line
- [- Starts a set of matching or non-matching expressions
- < This is put in an expression escaped with the backslash to find the ending or beginning of a word.
- /- Searches downwards in the file
- ?- Searches backwards in the file

Running and Substitution Commands

- !ls list all the existing files
- :s/search/replace/g Replace words or group of words within your files. [g: stands for globally]

Set Commands

- set ic- Ignores the case when searching
- set ai- set autoindent
- set noai- Unsets autoindent
- set nu Displays lines with line numbers on the left side
- set sw- sets the width of a software tabstop
- set ro- Changes file type to read-only

Important Points

- You must be in command mode to use the commands
- You must be in the insert mode to insert text in your file
- Press ESC twice to ensure that you are in command mode
- Commands are case-sensitive