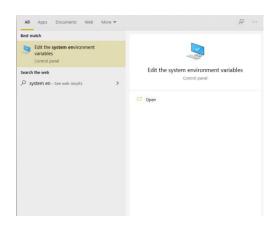
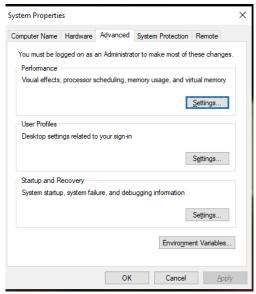
- 1. Programming Introduction
  - a. Operating System Basics
    - i. System folders

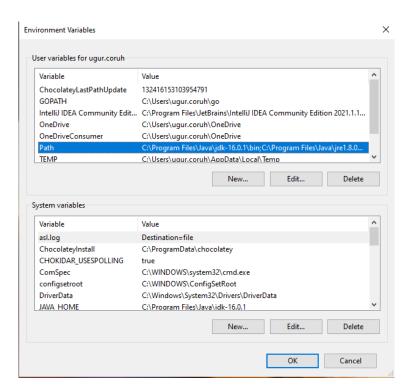
https://en.wikipedia.org/wiki/Special\_folder

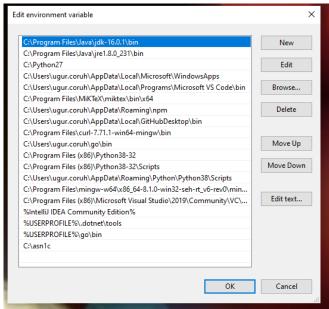
https://en.wikipedia.org/wiki/Unix\_filesystem#Conventional\_directory\_layout

# ii. System parameters

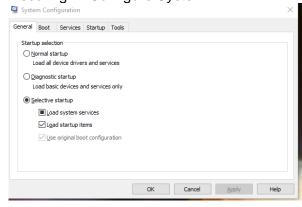




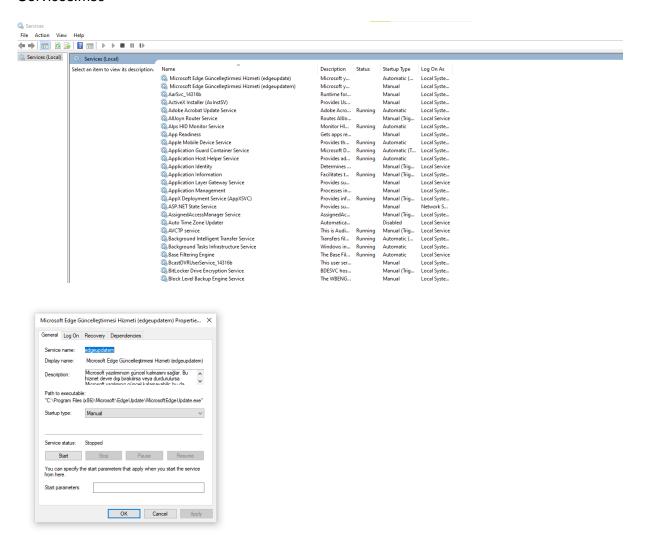




# Msconfig -> Configure System

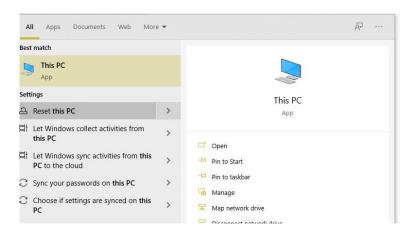


## Services.msc

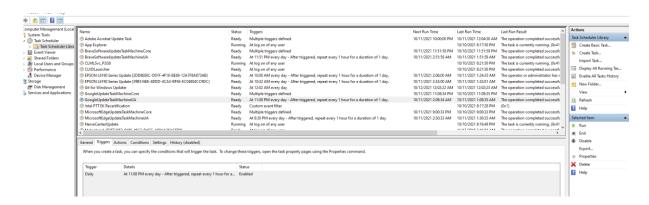


iii. Storage management

# This PC -> Manage



Task Scheduler



- b. Computer Network Basics
- c. IP, Port, DNS settings, NAT etc.
- d. Remote connections (FTP, SSH, RDP, XRDP)
- e. Putty, Mobaxterm
- 2. Numerical System Basics
  - 1. Binary system
  - 2. Hexadecimal system
  - b. Character Sets
- 3. Algorithm Basics
- 4. Introduction to Analysis of Algorithms
  - a. Algorithm Basics
  - b. Flowgorithm
  - c. Pseudocode
- 5. Programming Topics
- 6. Sysinternals Utilities
  - a. Programming Environment Setup and Configuration
    - i. C/Cpp
      - DevCpp
      - Code Blocks
      - 3. GCC/G++ Compiler (Mingw) / Clang-cl (LLVM)
      - Vscode
        - a. GCC
        - b. CLANG
      - 5. Visual Studio Community Edition
        - a. Visual Studio x64 x86 Configurations and Features
        - b. Project Types
      - 6. Notepad++
      - 7. Vi/Vim
      - 8. Eclipse
        - a. Simple Java Project Generation
        - b. Jar Export as Library or Executable
        - c. Maven Project Generation
        - d. Junit Test Case Generation and Testing
      - 9. Netbeans

10. Turbo C

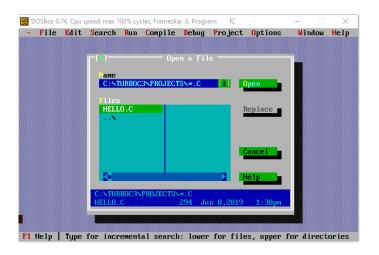
11. Turbo C++

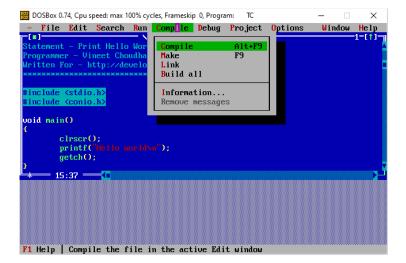
#### C:\TURBOC3\Turbo C++

https://developerinsider.co/download-turbo-c-for-windows-7-8-8-1-and-windows-10-32-64-bit-full-screen/



F1 Help | Create a new file in a new Edit window





Then just Run from Menu

## ii. Java

- 1. JDK, JRE Setup
- 2. System Environments and Paths
- 3. Netbeans
- 4. Eclipse
- 5. Intellij Idea (jetbrains)

- 6. vscode
- 7. Notepad++
- iii. C#
- 1. Visual Studio Community Edition
- 2. Notepad++
- b. Programming Environment Setup and Configuration
  - i. Notepad++ (Notepad for Source Code)
  - ii. HxD (Hex Editor)
  - iii. Marktext (Markdown Syntax Editor)
  - iv. Cygwin (Linux environment for Windows)
  - v. Dependency Walker (32-bit or 64-bit Windows module dependency checker)
  - vi. Doxygen (Code Documentation)
  - vii. Sonarlint (Code Quality and Code Security Extension)
  - viii. Codepen.io (online code sharing)
  - ix. Codeshare.io (real time code sharing)
  - x. Codebeautify.org (online data conversion tools)
  - xi. AsciiFlow.com (ASCII drawing tool)
  - xii. Freemind (opensource mindmap application)
  - xiii. Wireflow (user flow designer)
  - xiv. PlantUML (software designer)
  - xv. Drawio (drawing tool)
  - xvi. Putty (Remote Connection)
  - xvii. MobaXterm (Remote Connection)
  - xviii. Teamviewer (Remote Connection)
  - xix. Paletton.com (Color Chooser)
  - xx. Understand (Static Code Analysis)
  - xxi. JD Project (Java Decompiler)
  - xxii. Cutter (Multi-Platform Reverse Engineering Tool)
  - xxiii. IDA Pro / Freeware (Native Reverse Engineering Tool)
  - xxiv. Travis-CI
    - 1. Travis.yml
  - xxv. Jenkins
  - xxvi. Valgrind
  - xxvii. Docker
    - 1. Dockerfile
    - 2. DockerHub
    - 3. Docker Compose Yaml
    - 4. Dockerrun.aws.json (AWS)
  - xxviii. Nuget Packages
  - xxix. Extras
    - 1. vim/vim-wim32-installer (windows vim installer)
  - xxx. SCV Cryptomanager
  - xxxi. Addario CryptoBench
  - xxxii. Raymond's MD5 & SHA Checksum Utility
  - xxxiii. SlavaSoft HashCalc
  - xxxiv. Portable PGP
- c. Online Programming Envoriments
  - i. Hackerrank
  - ii. CS50 Sandbox
  - iii. Programiz C Online Complier

