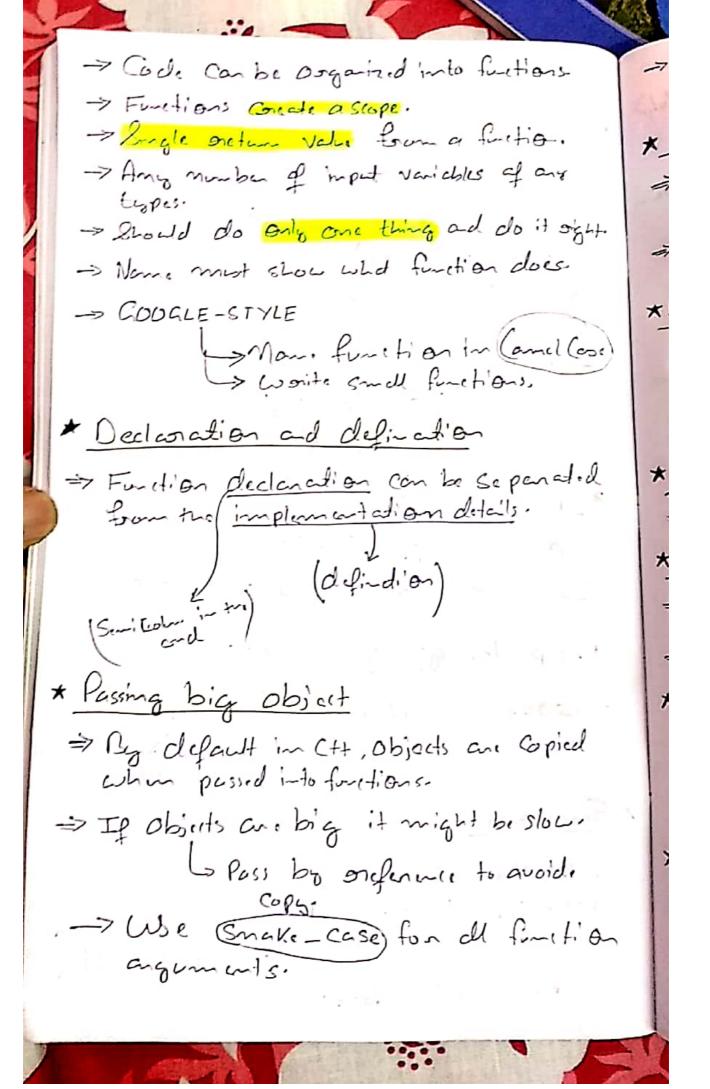
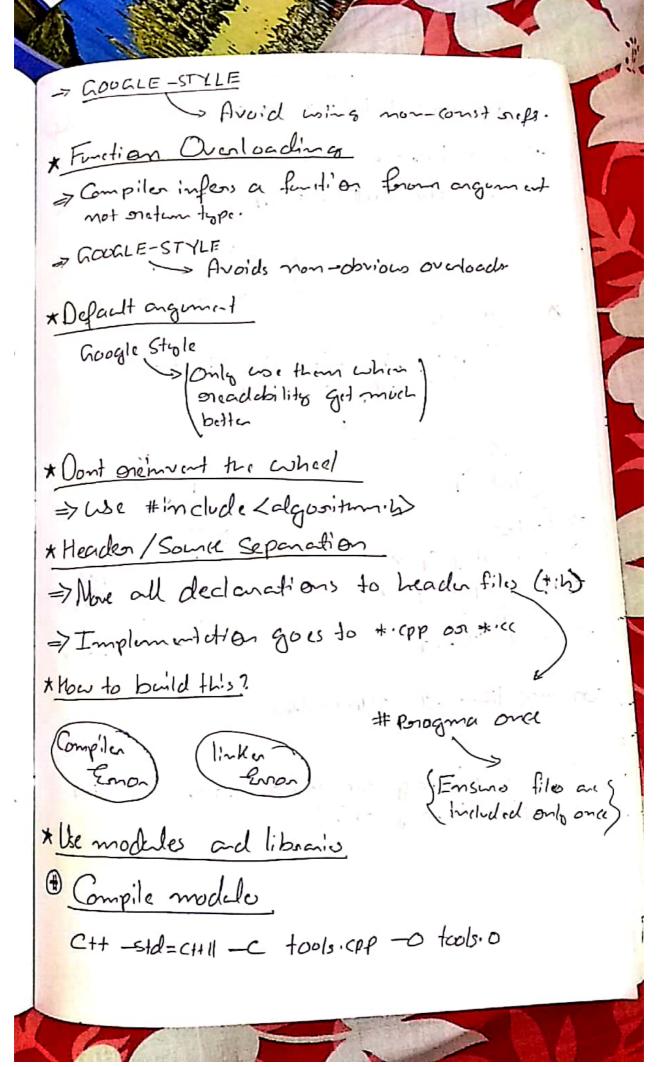
CPP-02 * Compilation flags - std = c++11 this tells we want to) for name off executable) -Wall. Show all the Variables * Optimization options: -00 = no optimization -03 on -ofast -> full optimizations. · Keep debugging Sombols: - g => Recommeded Debugger => gdb Odbani * Functions Richard Voca ReturnType Func Name (ParanType 1 m.1, ParamType 2 in 2) } netur notura-Value;





an once librals. a tools. O Kother-models

Link librarie When building Code.

CH -Std = CHI main (pp -L. 1 tools -0 main

Swhen to Scarch for librario

* Liboranies

> Multiple object files that are logically connected.

(Static)

- > faster
- > Take lot of Space
- => Become part of the
- > named lib*.a

Dynamic)

- => Slowe
- > Can be copied
- => orferenced by a Program
 - > named lib+.so

an once librare. a madde o module o

To use a library we need a header and the compiled library object.

* CMake > Scoripting languages in One of the most popular build tools. or Cross platform the liberary concalion and linking can be eneweritten as follows: add-liborary (tools tools.cpp) add-executable (main main cpp) taget-link diboraio (main tools) * Typical project Structure Project_name/ -> CMakeLists . txt 1 +> build / # All goweded build files >> bin/ -> tools-demo かしり/ -> libtuuls a to Soc/ -> CMakeLists. Let -> Eouls.h -> Ewis.h -> Euuls. CPP -tools-down cop -> tests/ #Test, for your code > test-tools. CAP -> CMakeList. Ext > needme. md # Now to use your code

* Build Poroccis > CMake sneads CMakeList. Ext Sequentially. 1. Cd <proj. +- folder> 2. mkdien build 3. cd build 4. Cmille 5. molle - 12 # pass you number of Cosnes hor. * First working CMakeList-txt Poroject (first - Project) * Mudelans Cricke_mirimun-onequired (VERSION 3.1) Sat (CMULE_CXX_STANDARD 11) # 500 (411) Sat (EXE CUTABLE DUTPUT_PATH & SARGJECT_SOURCE_DIR)/bin # Location to stone all the binaries Sat (LIBRARY_OUTPUT_PATH \$ [PROJECT_SOURCE_DIRS/lib) # Location to Stone all the Libraries include-directories (Include) add-library (tools sor/tools.cpp) add-executable (main Soultoob-main-(pp). tanget-link-librario (main tools) * Useful commads in Melle > Mas feature of a Scripting laguage (i.e. finition) , Control structures, variable etc.). -> All Variables are String. -> Set . Value with Set (VAR VALUE) -> Get value of a variable with \$ {VAR}

showa message missage (STATUS "message") dly.) WARNING , FATAL_ERROR) *Sot compilation option 1- (Make if (NOT CMAKE BUILD TYPE) Sof (CMAKE_BUILD_TYPE RELGOOD) endif() >> Debug binary is smell no optimization) -detans => Sof additional flags rdaters Set (CMAKE_CXX_FLAGS "-Well -Wextra") (111) SOF (CMAKE _CXX_FLAGS_DEBUG "-9 -00") [R]/bim SOL (CMAKE - CXX_FLAGS_ RELEASE, "O-3") * Performing a clear bild 6 ed project/bild @ make clean # stemore generated bimanics @ smr - si + * Use pra-compiled librarios add-librario (tools SHARED IMPORTED) Sit-property (TARGET Looks PROPERTY IMPORTED_LOCATION (00) "\$ [LIGRARY_GUTPUT_PATHS/littcols.so!")