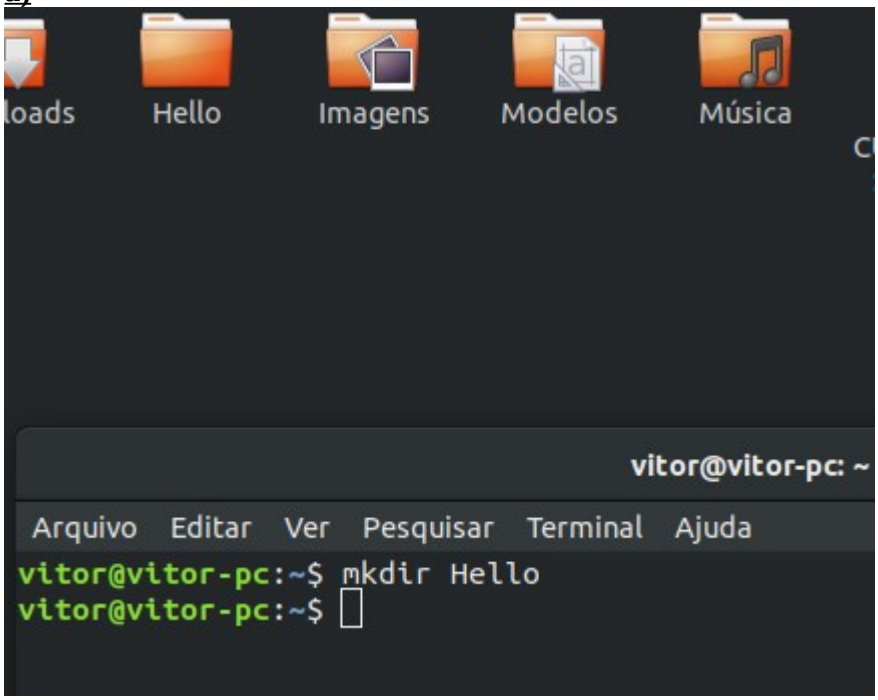
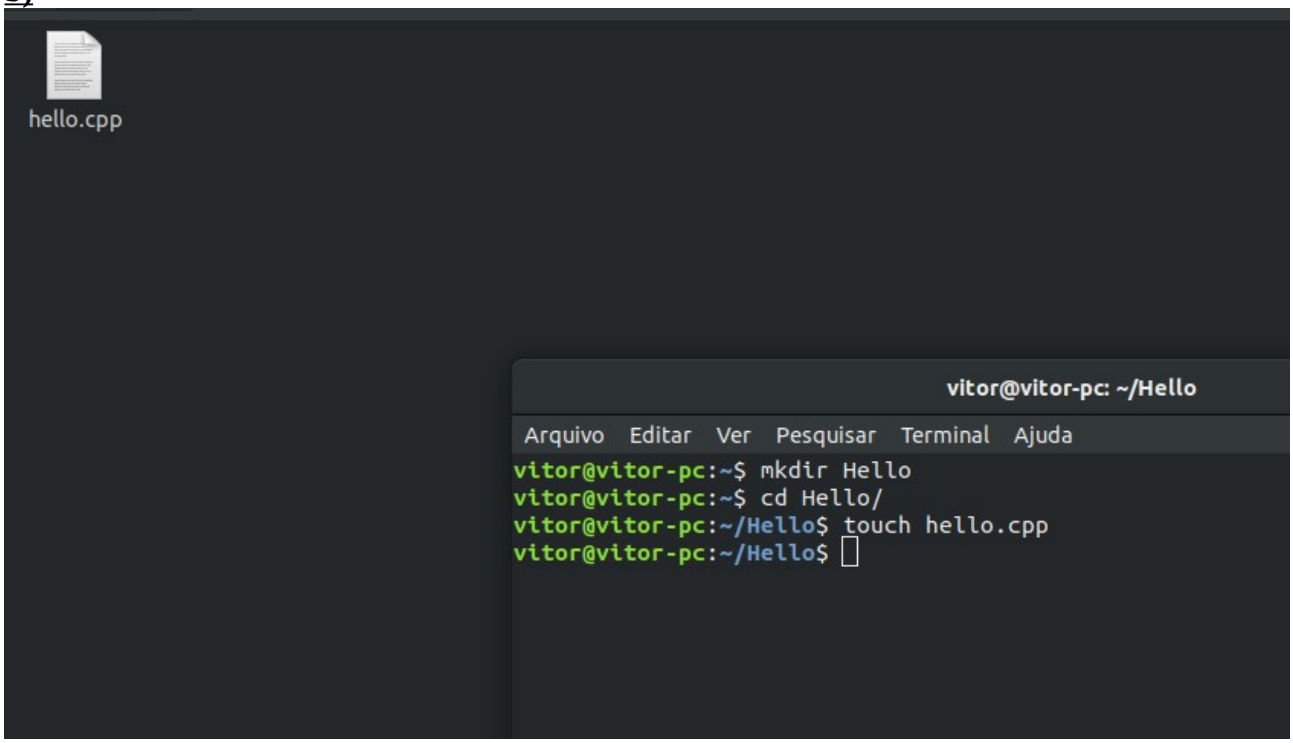
Laboratório 02

a)



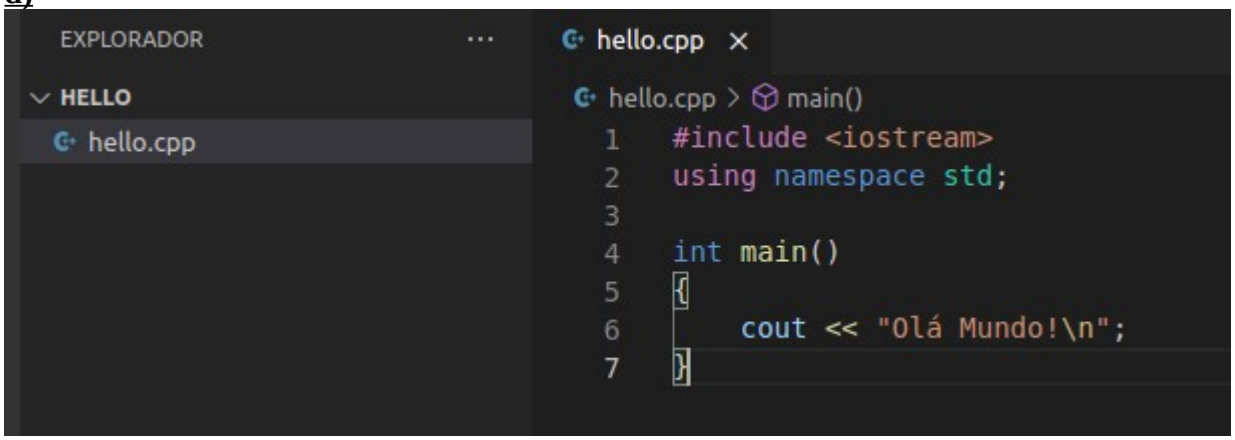
b)



c)

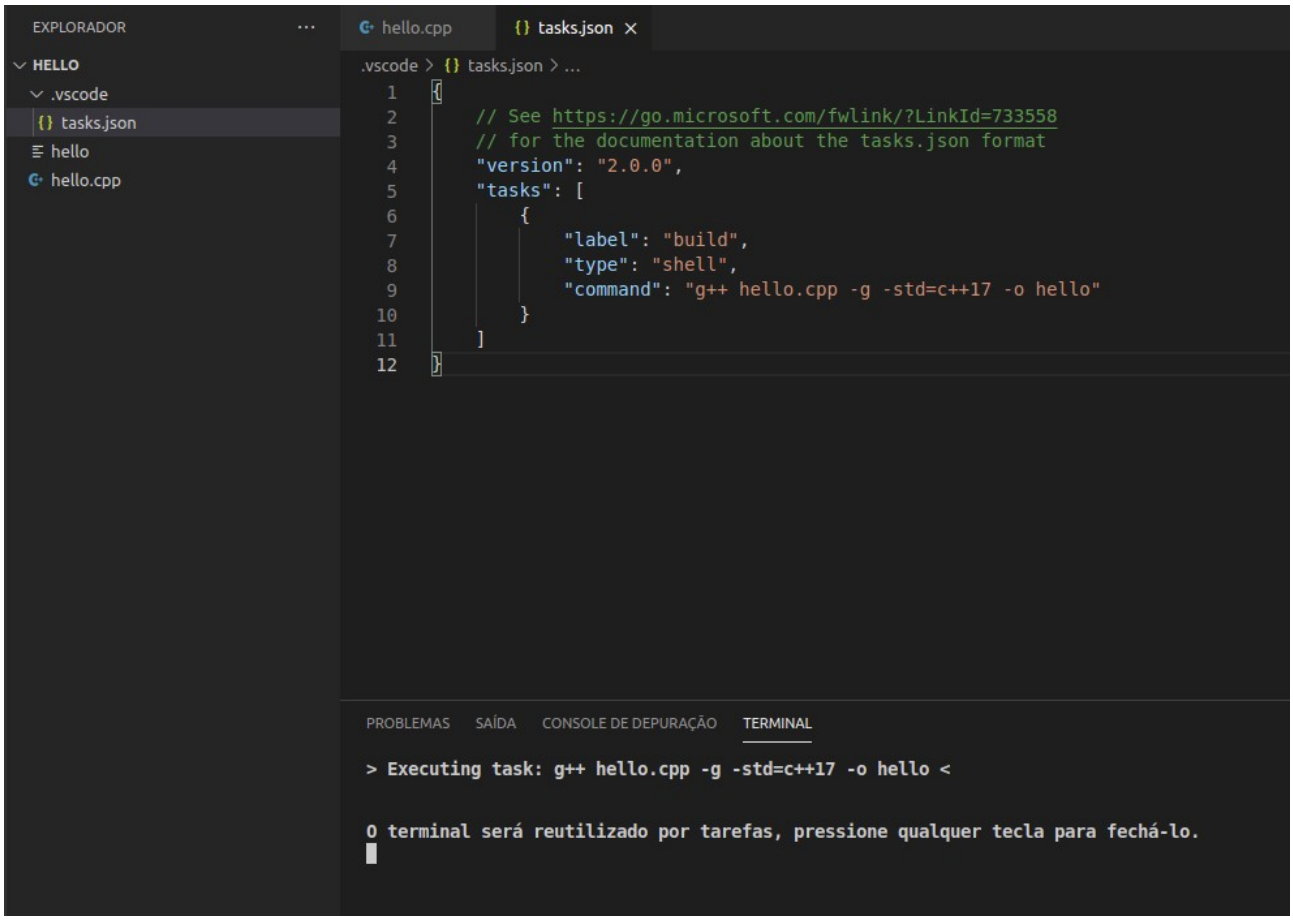
EXPLORADOR
HELLO
hello.cpp

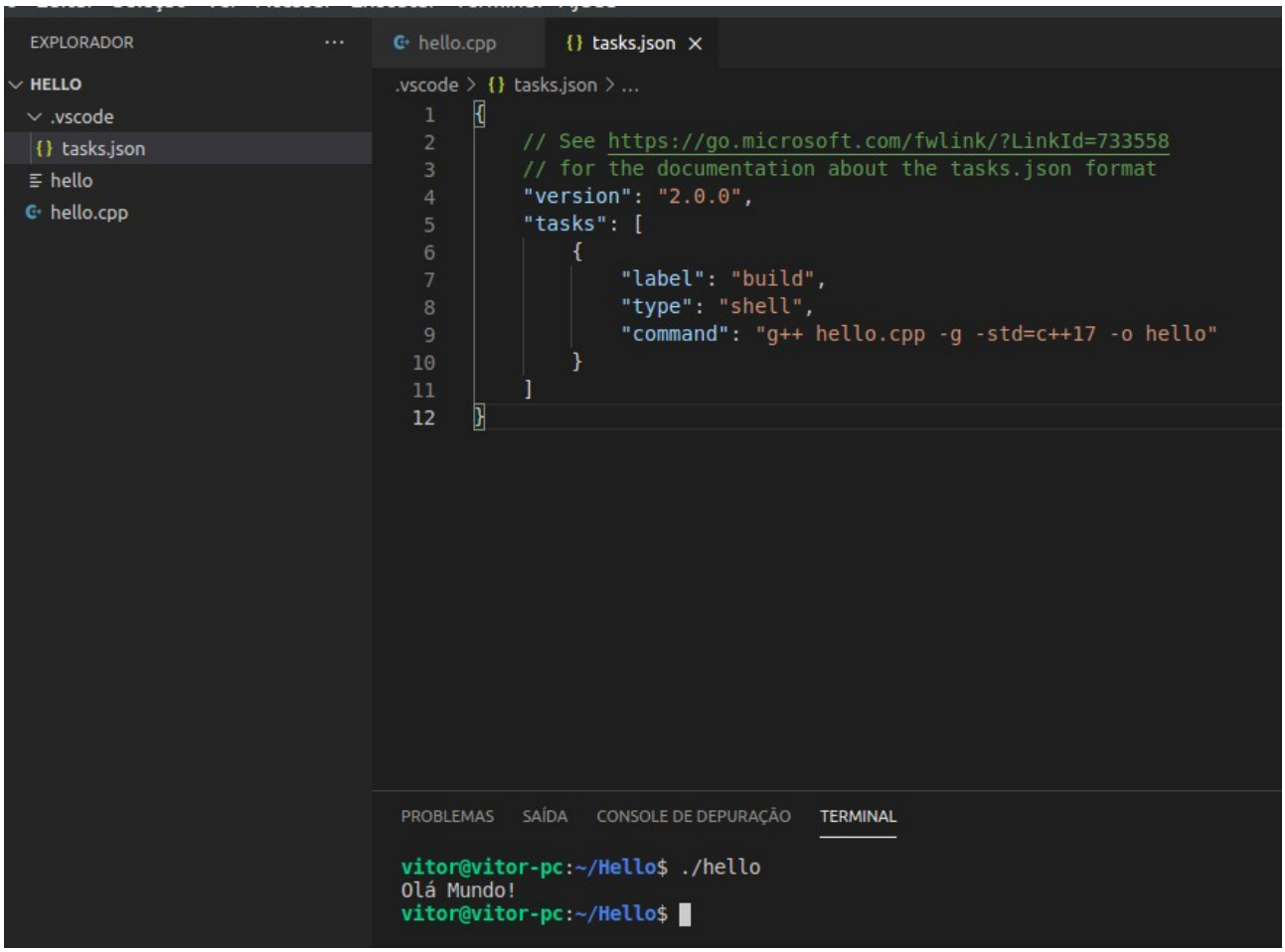
d)


EXPLORADOR
HELLO
hello.cpp
hello.cpp
hello.cpp > main()
#include <iostream>
using namespace std;
int main()
{
cout << "Olá Mundo!\n";
}

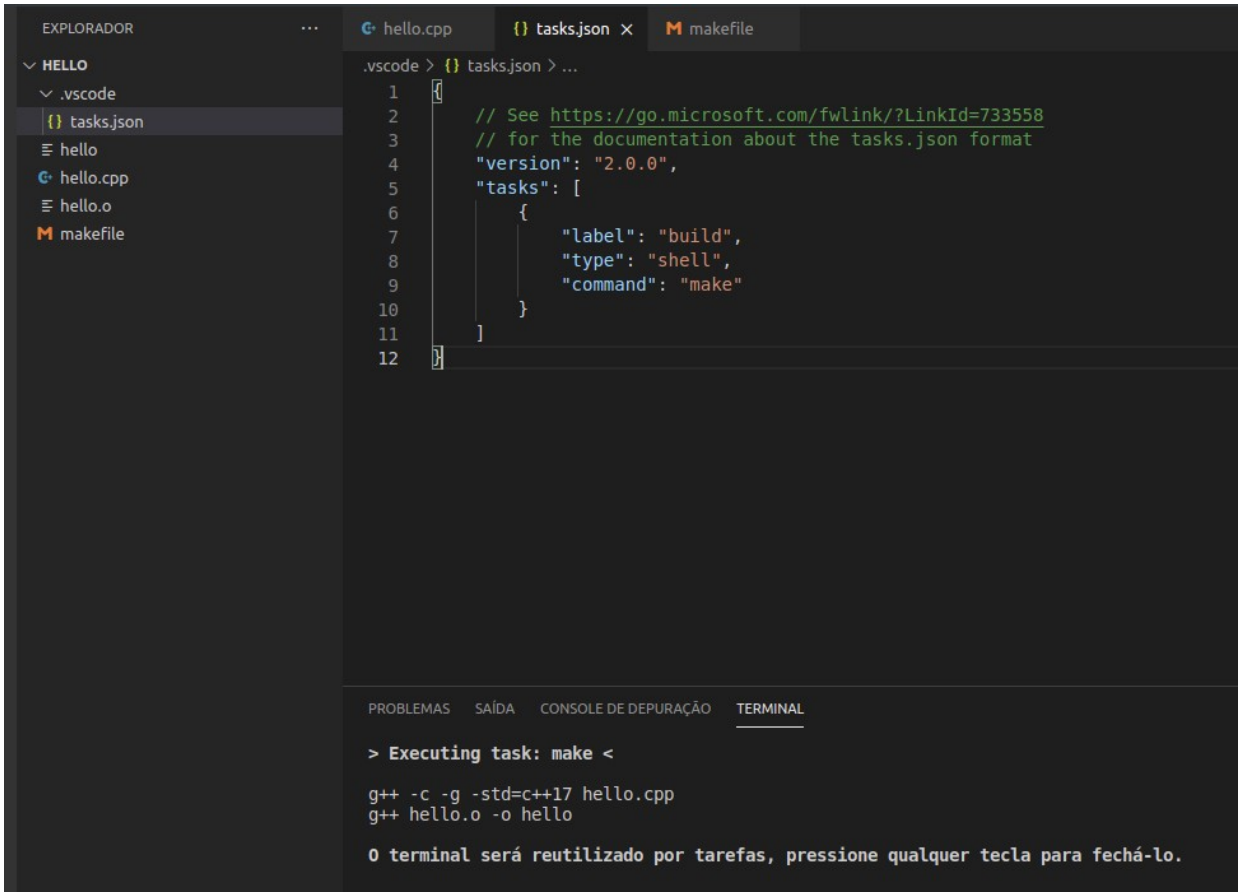
e)

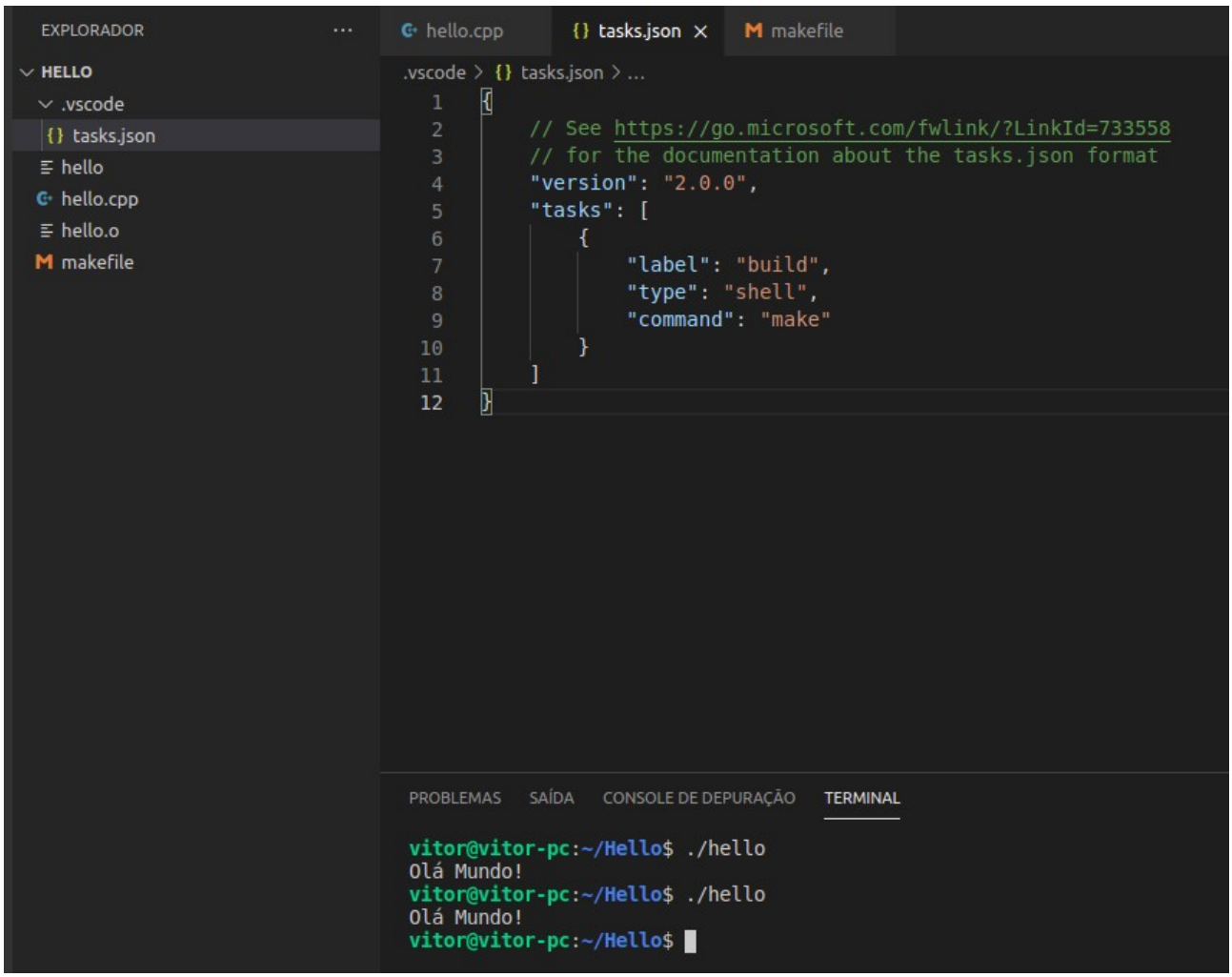
i


EXPLORADOR
HELLO
.vscode
tasks.json
hello
hello.cpp
hello.cpp
tasks.json
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "build",
"type": "shell",
"command": "g++ hello.cpp -g -std=c++17 -o hello"
}
]
}
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
> Executing task: g++ hello.cpp -g -std=c++17 -o hello <
O terminal será reutilizado por tarefas, pressione qualquer tecla para fechá-lo.

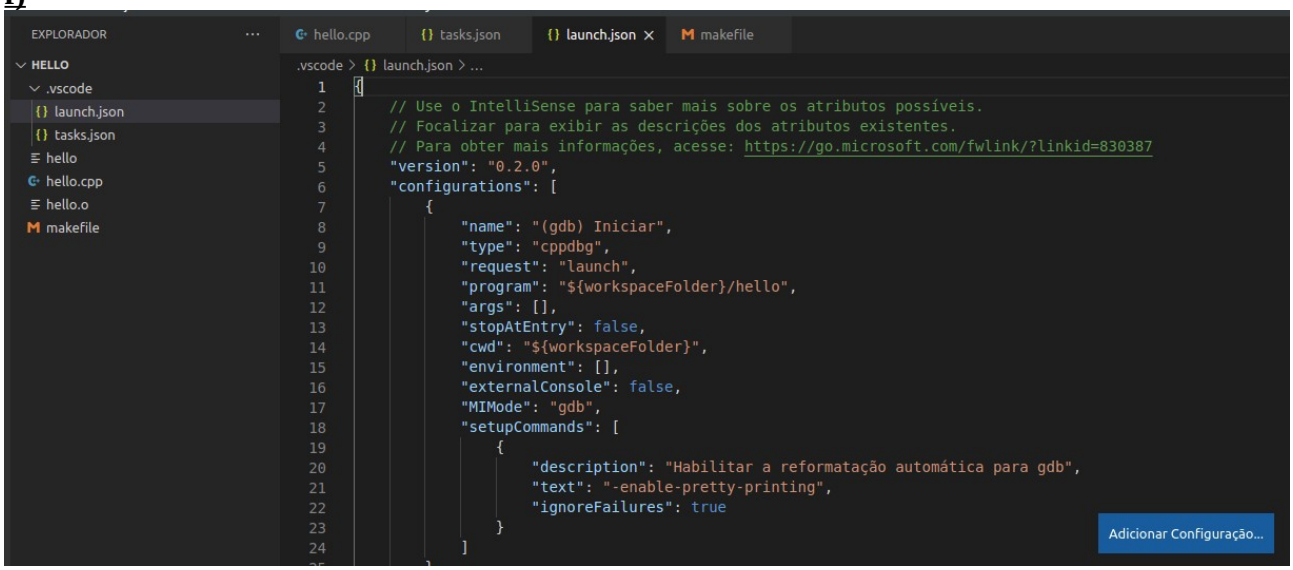

EXPLORADOR
HELLO
.vscode
tasks.json
hello
hello.cpp
hello.cpp
tasks.json
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "build",
"type": "shell",
"command": "g++ hello.cpp -g -std=c++17 -o hello"
}
]
}
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
vitor@vitor-pc:~/Hello$ ./hello
Olá Mundo!
vitor@vitor-pc:~/Hello$

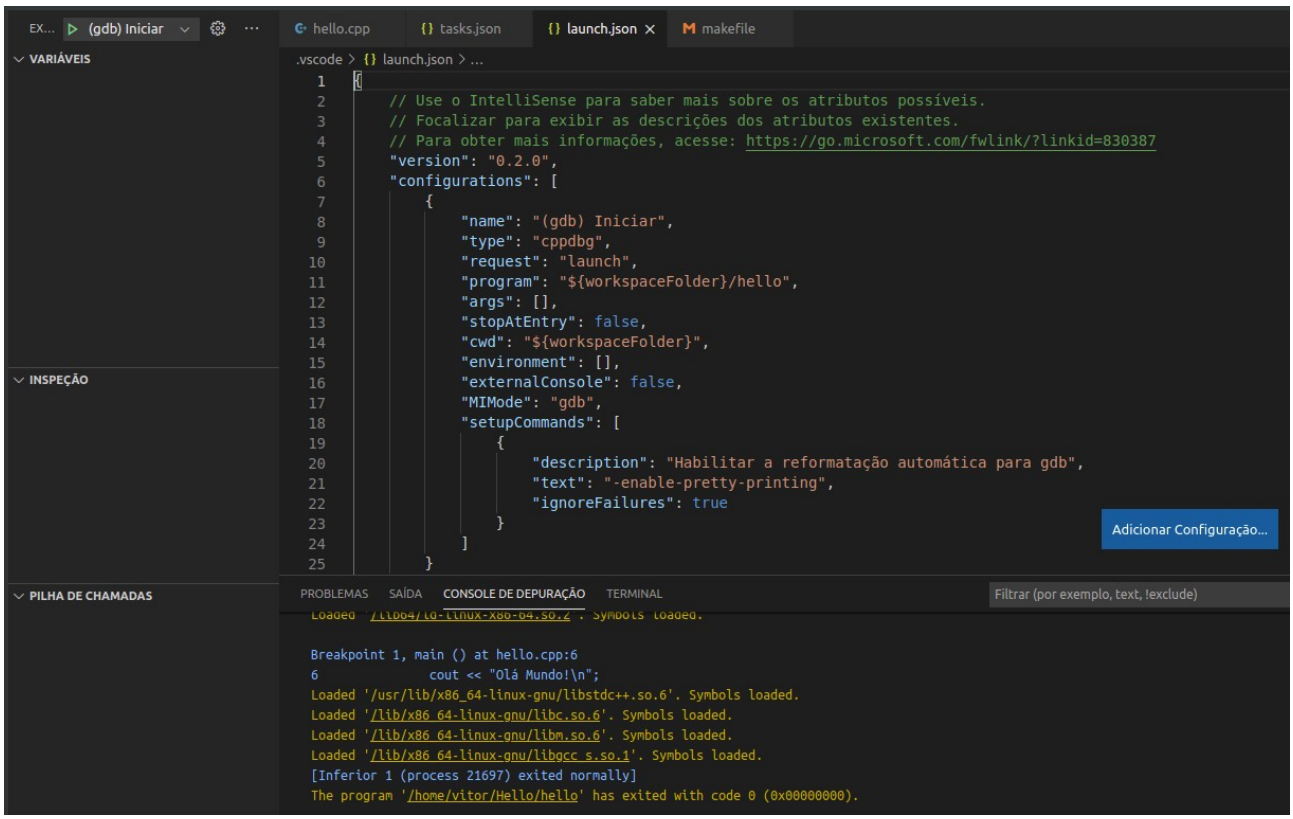
ii

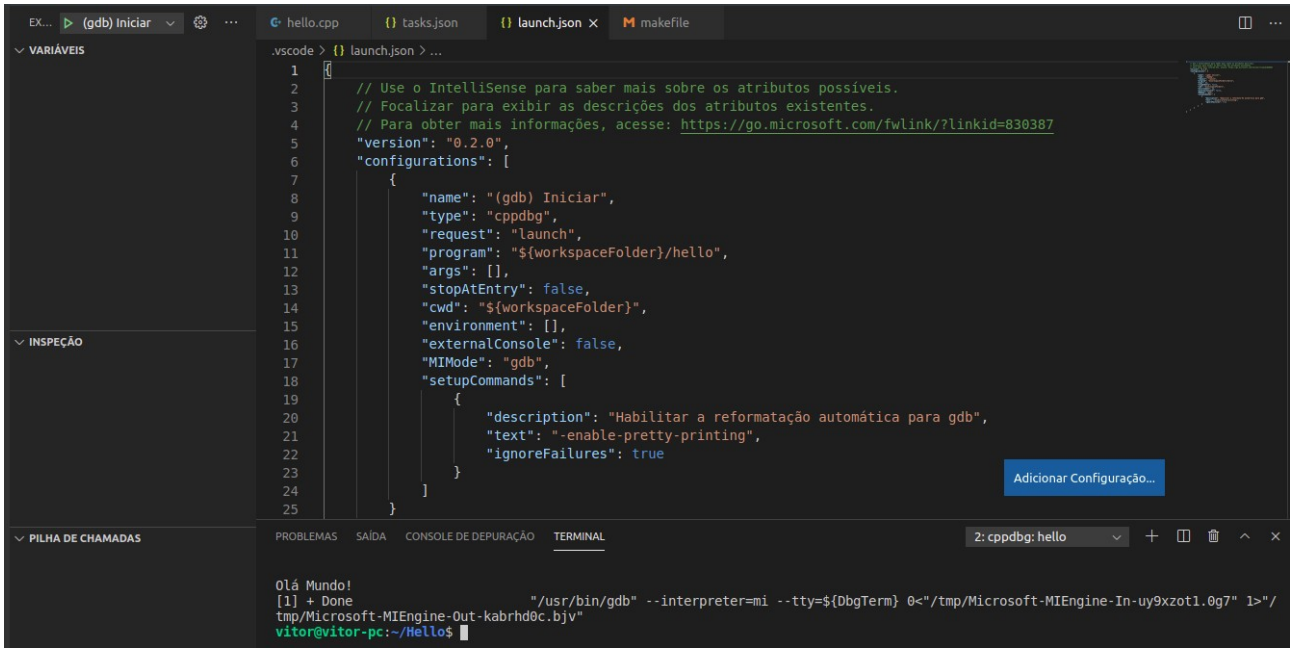

EXPLORADOR
HELLO
.vscode
tasks.json
hello
hello.cpp
hello.o
makefile
hello.cpp
tasks.json
makefile
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "build",
"type": "shell",
"command": "make"
}
]
}
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
> Executing task: make <
g++ -c -g -std=c++17 hello.cpp
g++ hello.o -o hello
O terminal será reutilizado por tarefas, pressione qualquer tecla para fechá-lo.


EXPLORADOR
HELLO
.vscode
tasks.json
hello
hello.cpp
hello.o
makefile
hello.cpp
tasks.json
makefile
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "build",
"type": "shell",
"command": "make"
}
]
}
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
vitor@vitor-pc:~/Hello$ ./hello
Olá Mundo!
vitor@vitor-pc:~/Hello$ ./hello
Olá Mundo!
vitor@vitor-pc:~/Hello$

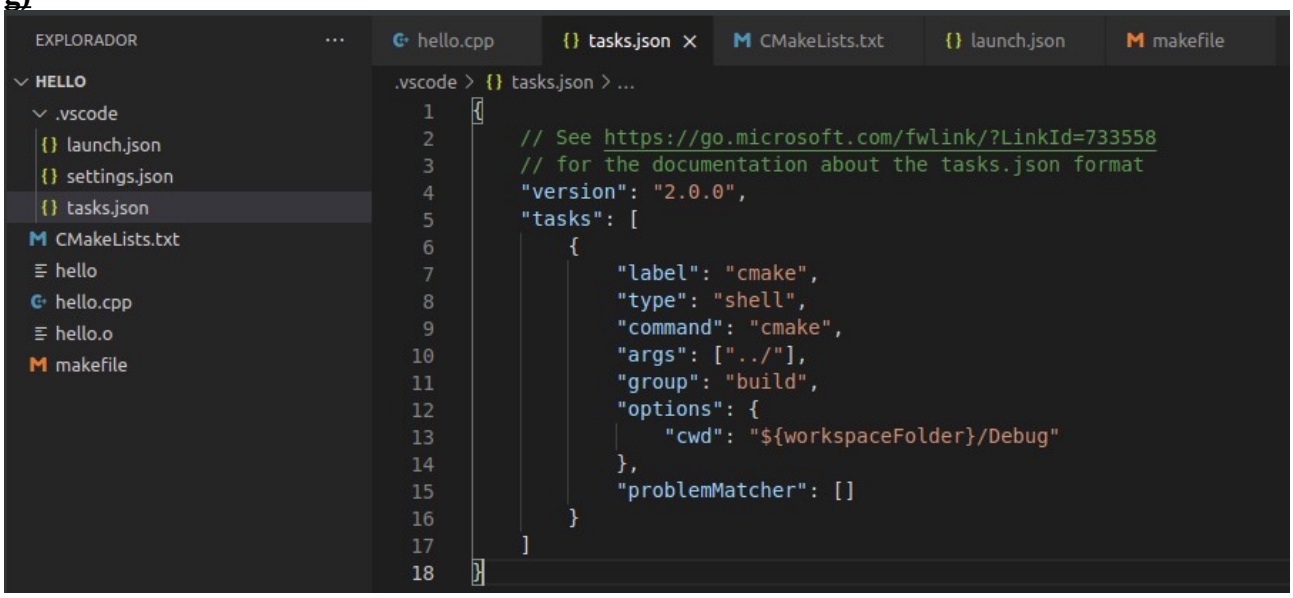
f)

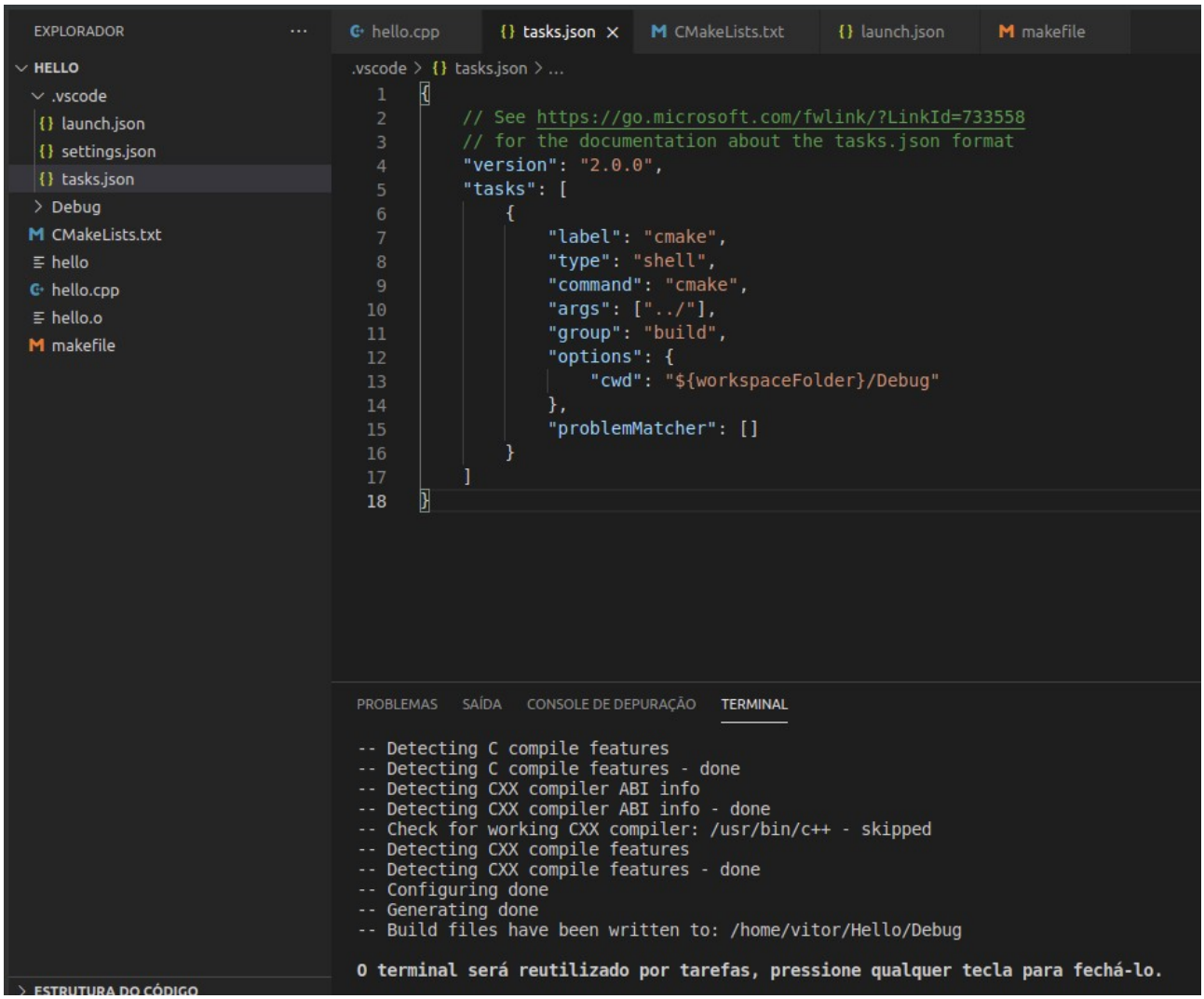

EXPLORADOR
HELLO
.vscode
launch.json
tasks.json
hello
hello.cpp
hello.o
makefile
hello.cpp
tasks.json
launch.json
makefile
.vscode > launch.json > ...
{
// Use o IntelliSense para saber mais sobre os atributos possíveis.
// Focalizar para exibir as descrições dos atributos existentes.
// Para obter mais informações, acesse: https://go.microsoft.com/fwlink/?linkid=830387
"version": "0.2.0",
"configurations": [
{
"name": "(gdb) Iniciar",
"type": "cppdbg",
"request": "launch",
"program": "${workspaceFolder}/hello",
"args": [],
"stopAtEntry": false,
"cwd": "${workspaceFolder}",
"environment": [],
"externalConsole": false,
"MIMode": "gdb",
"setupCommands": [
{
"description": "Habilitar a reformatação automática para gdb",
"text": "-enable-pretty-printing",
"ignoreFailures": true
}
]
Adicionar Configuração...

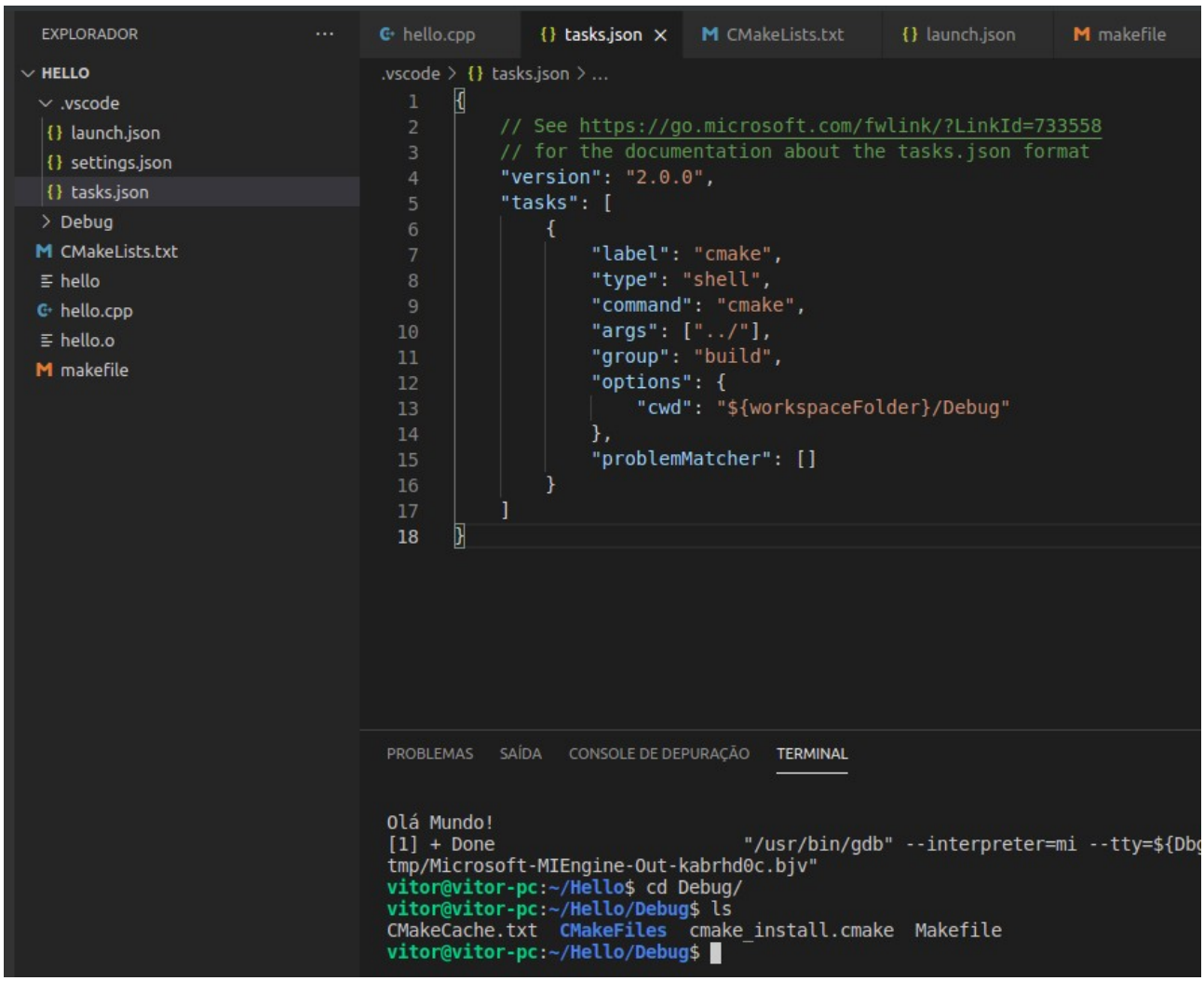

EX... (gdb) Iniciar
hello.cpp
tasks.json
launch.json
makefile
VARIÁVEIS
.vscode > launch.json > ...
{
// Use o IntelliSense para saber mais sobre os atributos possíveis.
// Focalizar para exibir as descrições dos atributos existentes.
// Para obter mais informações, acesse: https://go.microsoft.com/fwlink/?linkid=830387
"version": "0.2.0",
"configurations": [
{
"name": "(gdb) Iniciar",
"type": "cppdbg",
"request": "launch",
"program": "${workspaceFolder}/hello",
"args": [],
"stopAtEntry": false,
"cwd": "${workspaceFolder}",
"environment": [],
"externalConsole": false,
"MIMode": "gdb",
"setupCommands": [
{
"description": "Habilitar a reformatação automática para gdb",
"text": "-enable-pretty-printing",
"ignoreFailures": true
}
]
}
Adicionar Configuração...
INSPEÇÃO
PILHA DE CHAMADAS
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
Filtrar (por exemplo, text, !exclude)
Breakpoint 1, main () at hello.cpp:6
6 cout << "Olá Mundo!\n";
Loaded '/usr/lib/x86_64-linux-gnu/libstdc++.so.6'. Symbols loaded.
Loaded '/lib/x86_64-linux-gnu/libc.so.6'. Symbols loaded.
Loaded '/lib/x86_64-linux-gnu/libm.so.6'. Symbols loaded.
Loaded '/lib/x86_64-linux-gnu/libgcc_s.so.1'. Symbols loaded.
[Inferior 1 (process 21697) exited normally]
The program '/home/vitor/Hello/hello' has exited with code 0 (0x00000000).


EX... (gdb) Iniciar
hello.cpp
tasks.json
launch.json
makefile
VARIÁVEIS
.vscode > launch.json > ...
{
// Use o IntelliSense para saber mais sobre os atributos possíveis.
// Focalizar para exibir as descrições dos atributos existentes.
// Para obter mais informações, acesse: https://go.microsoft.com/fwlink/?linkid=830387
"version": "0.2.0",
"configurations": [
{
"name": "(gdb) Iniciar",
"type": "cppdbg",
"request": "launch",
"program": "${workspaceFolder}/hello",
"args": [],
"stopAtEntry": false,
"cwd": "${workspaceFolder}",
"environment": [],
"externalConsole": false,
"MIMode": "gdb",
"setupCommands": [
{
"description": "Habilitar a reformatação automática para gdb",
"text": "-enable-pretty-printing",
"ignoreFailures": true
}
]
}
Adicionar Configuração...
INSPEÇÃO
PILHA DE CHAMADAS
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
2: cppdbg: hello
Olá Mundo!
[1] + Done "/usr/bin/gdb" --interpreter=mi --tty=${DbgTerm} 0<"/tmp/Microsoft-MIEngine-In-uy9xzot1.0g7" 1>"/tmp/Microsoft-MIEngine-Out-kabrhd0c.bjv"
vitor@vitor-pc:~/Hello$

g)


EXPLORADOR
HELLO
.vscode
launch.json
settings.json
tasks.json
CMakeLists.txt
hello
hello.cpp
hello.o
makefile
hello.cpp
tasks.json
CMakeLists.txt
launch.json
makefile
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "cmake",
"type": "shell",
"command": "cmake",
"args": ["../"],
"group": "build",
"options": {
"cwd": "${workspaceFolder}/Debug"
},
"problemMatcher": []
}
]
}


EXPLORADOR
HELLO
.vscode
launch.json
settings.json
tasks.json
Debug
CMakeLists.txt
hello
hello.cpp
hello.o
makefile
hello.cpp
tasks.json
CMakeLists.txt
launch.json
makefile
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "cmake",
"type": "shell",
"command": "cmake",
"args": ["../"],
"group": "build",
"options": {
"cwd": "${workspaceFolder}/Debug"
},
"problemMatcher": []
}
]
}
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
-- Detecting C compile features
-- Detecting C compile features - done
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /usr/bin/c++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done
-- Generating done
-- Build files have been written to: /home/vitor/Hello/Debug
O terminal será reutilizado por tarefas, pressione qualquer tecla para fechá-lo.
ESTRUTURA DO CÓDIGO


EXPLORADOR
HELLO
.vscode
launch.json
settings.json
tasks.json
Debug
CMakeLists.txt
hello
hello.cpp
hello.o
makefile
hello.cpp
tasks.json
CMakeLists.txt
launch.json
makefile
.vscode > tasks.json > ...
{
// See https://go.microsoft.com/fwlink/?LinkId=733558
// for the documentation about the tasks.json format
"version": "2.0.0",
"tasks": [
{
"label": "cmake",
"type": "shell",
"command": "cmake",
"args": ["../"],
"group": "build",
"options": {
"cwd": "${workspaceFolder}/Debug"
},
"problemMatcher": []
}
]
}
PROBLEMAS
SAÍDA
CONSOLE DE DEPURAÇÃO
TERMINAL
Olá Mundo!
[1] + Done "/usr/bin/gdb" --interpreter=mi --tty=${Dbg
tmp/Microsoft-MIEngine-Out-kabrhd0c.bjv"
vitor@vitor-pc:~/Hello$ cd Debug/
vitor@vitor-pc:~/Hello/Debug$ ls
CMakeCache.txt CMakeFiles cmake_install.cmake Makefile
vitor@vitor-pc:~/Hello/Debug$