

Ministry of Education and Science of Ukraine

National Technical University “KhPI”

Educational and Scientific Institute of Computer Science and Informational Technology

*Department of Computer Engineering and Programming*

**Course:** *Programming. Part1*

**REPORT** on the laboratory work #1

**Topic:** “*Basics of Setting Up Development Environment*”

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### Task 1

#### Explanation

To configure the development environment, install the necessary tools and write some code in C++. Compile it.

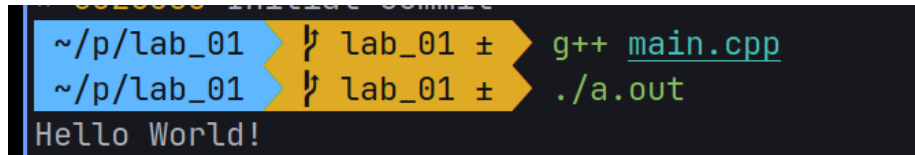
#### Command performed

```
yay -S gcc make cmake ...
git checkout -b lab_01
mkdir lab_01
mkdir lab_01/assets
nvim lab_01/main.cpp
g++ lab_01/main.cpp
./a.out > output.txt
nvim lab_01/report.md
git add .
git commit -m "feat: readme.md rewrite"
git push lab_01
```

#### Algorithm

1. Installed gcc && g++ && make && cmake etc.

2. Wrote simple C++ program to display “Hello World”.
3. Compiled it using g++.
4. Using `./a.out > output.txt` redirected output to file.



```
~/p/lab_01 lab_01 ± g++ main.cpp
~/p/lab_01 lab_01 ± ./a.out
Hello World!
```

Figure 1: Code result

## Tools

- OS: EndeavourOS
- Compiler: g++
- Editor: NeoVim