# Example1

# **Essential Packages on Ubuntu**

1. apt-get update

```
apt-get update
```

2. apt-get install -y sudo vim wget unzip g++ cmake curl pkg-config libssl-dev libsasl2-dev git python3 nano

```
apt-get install -y sudo vim wget unzip g++ cmake curl pkg-config libssl-dev
libsasl2-dev git python3 nano
```

3. mkdir simpleapp

```
mkdir simpleapp
```

4. cd simpleapp

```
cd simpleapp
```

### **Extract Crow Framework**

5. wget https://github.com/CrowCpp/Crow/releases/download/v1.0%2B5/crow-v1.0+5.tar.gz

```
wget https://github.com/CrowCpp/Crow/releases/download/v1.0%2B5/crow-v1.0+5.tar.gz
```

6. mkdir crow

```
mkdir crow
```

7. tar xvfz crow-v1.0+5.tar.gz -C crow --strip-components=1

```
tar xvfz crow-v1.0+5.tar.gz -C crow --strip-components=1
```

#### **Extract Boost Libraries**

8. wget https://boostorg.jfrog.io/artifactory/main/release/1.83.0/source/boost\_1\_83\_0.tar.gz

```
wget
https://boostorg.jfrog.io/artifactory/main/release/1.83.0/source/boost_1_83_0.tar.
gz
```

9. tar -xzvf boost\_1\_83\_0.tar.gz

```
tar -xzvf boost_1_83_0.tar.gz
```

#### 10. nano main.cpp

```
nano main.cpp
```

```
#include "crow.h"
//#include "crow_all.h"

int main()
{
    crow::SimpleApp app; //define your crow application

    //define your endpoint at the root directory
    CROW_ROUTE(app, "/")([](){
        return "Hello world";
    });

    //set the port, set the app to run on multiple threads, and run the app app.port(8080).multithreaded().run();
}
```

#### 11. nano CMakeLists.txt

```
nano CMakeLists.txt
```

```
cmake_minimum_required(VERSION 3.15)
project(simplecpp)
# Define the include directories
```

## **Build the Application**

12. mkdir build

```
mkdir build
```

13. cd build

```
cd build
```

14. cmake ..

```
cmake ..
```

15. make

```
make
```

### **Run the Application**

16. ./simplecpp

```
./simplecpp &
```

## Once executed, it will start a web server on a specified port 8080

17. curl http://localhost:8080

curl http://localhost:8080

# **Excpected Output**

HelloWorld