

# Tasks after lecture 2

## Tasks:

- 1) Use macros to create a program such that when you pass a string to the compiler using -D argument, it will print the given string.

### Expected Output:

```
vedant@veware:/tmp$ gcc temp.c -DSTR="vedant"  
vedant@veware:/tmp$ ./a.out  
vedant  
vedant@veware:/tmp$ _
```

Here “**STR**” is a macro that is defined inside the code. So, we give it a value using -DSTR=”some\_text”, now the program should use this macro to print it using printf.

This will require significant understanding of preprocessors, it’s okay if you cannot do this.

***NOTE: Those who can solve this question before 12 October Monday, 13.00 PM will be given a prize. Tie breaker will be using submission time on google classroom and correctness of code.***

- 2) Create a makefile to download and compile the following C project.  
<https://sravjti.tech/embedded-systems-study-group/assets/week2/code2.zip>

The Makefile should download the following zip file, unzip its contents and compile its contents to an executable.

### Makefile is expected to have the following rules:

- 1) download
- 2) unzip
- 3) compile
- 4) clean

Default rule will have these three rules as prereq.

***Hint: Use wget and unzip on linux to download and unzip.***

- 3) Do the same thing as in Task 2, but use CMake this time to do it.  
***Hint: use [this](#) for downloading, and [this](#) for unzipping***