

*Heaven's Light is Our Guide*

## **Rajshahi University of Engineering & Technology**



*Department of Electrical & Computer Engineering*

**Course Title:** Software Engineering & Information System Design  
Sessional

**Course No. :** ECE 3118

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## Experiment No: 01

**Experiment Name:** Study and analysis of markdown language and documentation and implementation of documentation using markdown language.

**Objectives:** The main objective of this experiment is to learn about markdown language, documentation and how it can be implemented.

**Introduction:** Software documentation is a written piece of text that is often accompanied with a software program. This makes the life of all the members associated with the project more easy. It may contain anything from API documentation, build notes or just help content. It is a very critical process in software development. Good documentation practices are important for the success of the software. Documentation must comprise an interactive user experience, information architecture, and good understanding of audience. It's primary an integral part of any computer code development method.

Markdown is a lightweight markup language used to create formatted text, typically for publishing on the internet using a plain-text editor. Usually we make documentation using markdown language.

**Tools:** VS code

### Code & Output:

```
Code for heading:  
# The C Programming Language
```

Output:

## The C Programming Language

---

```
Code for Sub heading:  
## Introduction
```

Output:

### Introduction

```
Code for italic:  
_C is a general purpose programming language_  
    or,  
*C is a general purpose programming language*
```

Output:

*C is a general purpose programming language*

```
Code for bold:  
__C is a general purpose programming language__  
    or,  
**C is a general purpose programming language**
```

Output:

**C is a general purpose programming language**

```
Code for italic and bold:
__C is a general purpose programming language__
or,
*__C is a general purpose programming language__*
or,
***C is a general purpose programming language***
```

Output:

***C is a general purpose programming language***

```
Code for unordered list:
* void
* char
* int
* float
* double
```

Output:

- void
- char
- int
- float
- double

```
Code for ordered list:
1. void
2. char
3. int
4. float
5. double
```

Output:

1. void
2. char
3. int
4. float
5. double

Code for adding image:  


Output:



code for code snippet:

```
``` c
#include <stdio.h>
int main()
{
    int num1, num2, sum;
    printf("Enter the numbers: ");
    scanf("%d %d", &num1, &num2);
    sum = num1 + num2;
    printf("Sum of the entered numbers: %d", sum);
    return 0;
}
```

Output:

```
#include <stdio.h>
int main()
{
    int num1, num2, sum;
    printf("Enter the numbers: ");
    scanf("%d %d", &num1, &num2);
    sum = num1 + num2;
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    return 0;
}
```

A documentation on C programming language will look like as follows:

## Code:

```
1 # The C Programming Language
2 ## Introduction
3 C is a high-level and general-purpose programming language that is ideal for developing firmware or portable
  applications. Originally intended for writing system software, C was developed at Bell Labs by Dennis Ritchie for the Unix
  Operating System in the early 1970s.
4
5 ## C program structure
6 A C program basically consists of the following parts:
7 * Preprocessor Commands
8 * Functions
9 * Variables
10 * Statements & Expressions
11 * Comment
12
13 ## Data Types
14 C has five basic data types.
15 1. void
16 2. char
17 3. int
18 4. float
19 5. double
20
21 Following is the C program to add two integers
22 ``` c
23 #include <stdio.h>
24 int main()
25 {
26     int num1, num2, sum;
27     printf("Enter the numbers: ");
28     scanf("%d %d", &num1, &num2);
29     sum = num1 + num2;
30     printf("Sum of the entered numbers: %d", sum);
31     return 0;
32 }
33 ```
34 
35
```

## Output:

Preview lab-01.md

### The C Programming Language

#### Introduction

C is a high-level and general-purpose **programming language** that is ideal for developing firmware or portable applicatio  
Originally intended for writing system software, C was developed at Bell Labs by Dennis Ritchie for the Unix Operating Sys  
the early 1970s.

#### C program structure

A C program basically consists of the following parts:

- Preprocessor Commands
- Functions
- Variables
- Statements & Expressions
- Comment

#### Data Types

C has five basic data types.

1. void
2. char
3. int
4. float
5. double

Following is the C program to add two integers

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#include <stdio.h>
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**Conclusion:** Markdown is a great tool for easily making formatted text files that display across a variety of platforms. It's popular with technical writers for its ease of use and relatively short learning curve.

Research of the options should be done before committing to launching a product documentation project in a particular format like Markdown. It need to be make sure that the other platforms need to use now and potentially in the future are Markdown-compatible.