Heaven's light is our guide

Rajshahi University of Engineering & Technology

(RUET), Rajshahi

Department

Of

Electrical and Computer Engineering

LAB REPORT-1

Course No: ECE-3118

Course Title: Software Engineering and Information System Design Sessional

Submitted To:

Oishi Jyoti

Assistant Professor

Department of Electrical & Computer Engineering

Rajshahi University of Engineering & Technology,

(RUET)

Submitted By:

Mohammad Mahin Ahsan

Roll: 2010003

Semester: 3rd Year Odd

Heaven's light is our guide

Rajshahi University of Engineering and Technology

![Image](RUET_logo.png)

Department of Electrical And Computer Engineering

LAB REPORT

Course Code: ECE-3118
Course Title: Software Engineering And Information System Design Sessional

Submitted To:
Oyshi Jyoti
Lecturer
Department of Electrical and Computer Engineering
Rajshahi University of Engineering and Technology

Submitted By:
Mohammad Mahin Ahsan

Roll: 2010003
Semester: 3rd Year Odd

Table of Contents

Programming Languages
A programming language is a system of notation for writing computer programs. They are described in terms of their syntax (form) and semantics (meaning), usually defined by a formal language. Programming languages provide features such as a type system, variables, and mechanisms for error handling. They allow us to communicate with computers, build and organize code, specify functionality and behavior, automate and improve efficiency, collaborate and share code, and solve problems creatively. Examples of programming languages include C, Python, C++, Java, SCALA, C#, R, Ruby, Go, Swift, JavaScript.

`### _Code_`

```c
#include <stdio.h>
int main() {
// printf() displays the string inside quotation
printf("Hello, World!");
return 0;
}

```

`### _Output_`

```

Hello, World!
```

- For more info,
  [Wikipedia](https://en.wikipedia.org/wiki/Programming_language_reference)

Scripting Languages

A scripting language is a programming language that is used to manipulate, customize, and automate the functions of an existing software system. Scripting languages are usually interpreted at runtime rather than compiled. They are used to write scripts for a runtime environment and do not require the compilation step. Examples of scripting languages include Python, JavaScript, Perl, Ruby, Node.js, and PHP.

`### _Code_`

```python
print("Hello, World!")
```

`### _Output_`

```

Hello, World!
```

- For more info,
  [Kinsta](https://kinsta.com/blog/scripting-languages/)

Markup Languages

A markup language is a set of rules that defines how the layout and presentation of text and images should appear in a digital document. It allows structuring documents, adding formatting, and specifying how different elements should be displayed (or "rendered") on webpages. Markup languages are different from programming languages. They focus primarily on the presentation and structure of content. Examples of markup languages include HTML, XML, SGML, XHTML.

`### _Code_`

```html
<!DOCTYPE html>
<html>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

`### _Output_`

![Image](HTML_Output.png)

For more info,
 [Brittanica](https://www.britannica.com/technology/markup-language)

Markdown Language

Markdown is a simple syntax that formats text as headers, lists, boldface, and so on. It is a lightweight markup language that you can use to format virtually any document. Markdown makes writing on the web fast and easy. It is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly.

`### _Code_`

```markdown
# Hello, World!
```

~~Strike THrough~~

`Box`

- Bulleted Item

* Bulleted Item

- Bulleted Item

Name	Age	Gender
Mahin	22	Male
Mahin	22	Male
Mahin	22	Male

[Google Inc.](https://developers.google.com/)
```

`### _Output_`

![Image](Markdown_Output.png)

For more info,
 [Markdown Guide](https://www.markdownguide.org/basic-syntax/)

<https://wwww.facebook.com>

**Preview:**

*Heaven's light is our guide*

## Rajshahi University of Engineering and Technology

**Department of Electrical And Computer Engineering**

## LAB REPORT

**Course Code:** ECE-3118
**Course Title:** Software Engineering And Information System Design Sessional

**Submitted To:**
Oyshi Jyoti
Lecturer
Department of Electrical and Computer Engineering Rajshahi University of Engineering and Technology

**Submitted By:** Mohammad Mahin Ahsan
**Roll:** 2010003
**Semester:** 3rd Year Odd

# Table of Contents

## Programming Languages

A programming language is a system of notation for writing computer programs. They are described in terms of their syntax (form) and semantics (meaning), usually defined by a formal language. Programming languages provide features such as a type system, variables, and mechanisms for error handling. They allow us to communicate with computers, build and organize code, specify functionality and behavior, automate and improve efficiency, collaborate and share code, and solve problems creatively. Examples of programming languages include C, Python, C++, Java, SCALA, C#, R, Ruby, Go, Swift, JavaScript.

### _Code_

```c
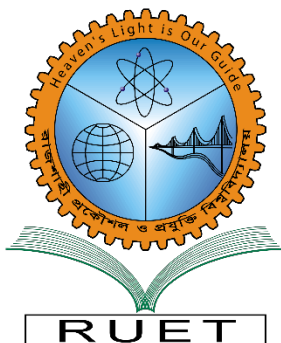#include <stdio.h>
int main() {
// printf() displays the string inside quotation
printf("Hello, World!");
return 0;
}
```

Output

```
Hello, World!
```

- For more info,
  Wikipedia

Scripting Languages

A scripting language is a programming language that is used to manipulate, customize, and automate the functions of an existing software system. Scripting languages are usually interpreted at runtime rather than compiled. They are used to write scripts for a runtime environment and do not require the compilation step. Examples of scripting languages include Python, JavaScript, Perl, Ruby, Node.js, and PHP.

Code

```python
print("Hello, World!")
```

Output

```
Hello, World!
```

- For more info,
  Kinsta

Markup Languages

A markup language is a set of rules that defines how the layout and presentation of text and images should appear in a digital document. It allows structuring documents, adding formatting, and specifying how different elements should be displayed (or "rendered") on webpages. Markup languages are different from programming languages. They focus primarily on the presentation and structure of content. Examples of markup languages include HTML, XML, SGML, XHTML.

Code

```html
<!DOCTYPE html>
<html>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

Output

Hello, World!

For more info,
Brittanica

Markdown Language

Markdown is a simple syntax that formats text as headers, lists, boldface, and so on. It is a lightweight markup language that you can use to format virtually any document. Markdown makes writing on the web fast and easy. It is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly.

Markdown Language

Markdown is a simple syntax that formats text as headers, lists, boldface, and so on. It is a lightweight markup language that you can use to format virtually any document. Markdown makes writing on the web fast and easy. It is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly.

Code

```
# Hello, World!

~~Strike THrough~~

`Box`

- Bulleted Item

* Bulleted Item

- Bulleted Item

---

| Name  | Age | Gender |
| ----- | --- | ------ |
| Mahin | 22  | Male   |
| Mahin | 22  | Male   |
| Mahin | 22  | Male   |

[Google Inc.](https://developers.google.com/)
```

Output

Hello, World!

~~Strike THrough~~

`Box`

- Bulleted Item
- Bulleted Item
- Bulleted Item

Name	Age	Gender
Mahin	22	Male
Mahin	22	Male
Mahin	22	Male

Google Inc.

For more info,
Markdown Guide

https://wwww.facebook.com