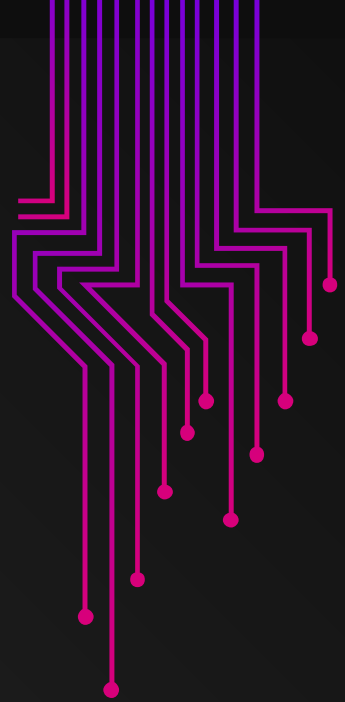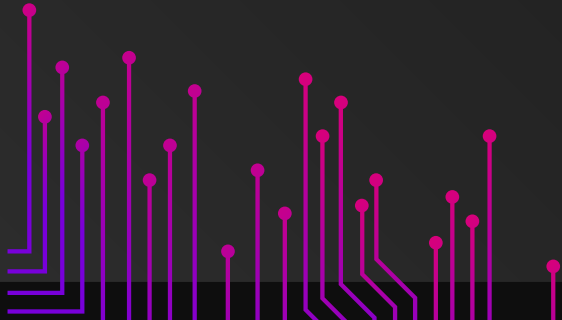# C Programming Workshop

Introduction of c programming by Tawhid Monowar

What is a Programming Language?

A programming language is a set of instructions or commands that we use to tell the computer what to do.

Programmers communicate with computers using programming languages.

Types of programming languages

High-Level Languages: Easier to understand for humans. They are closer to natural languages like English and are designed to make programming more accessible.

Examples: Python, Java, C++, etc.

Low-Level Languages: Low-level languages are more closely related to the machine language understood by computers.
Examples: Assembly language, Machine language, etc.

Printing Hello World

Python

```
print('Hello, world!')
```

Assembly Language

```
.MODEL SMALL
.STACK 100h
.DATA

STR1 DB "Hello World $"

.CODE
    MAIN PROC

        MOV AX, @DATA
        MOV DS, AX

        LEA DX, STR1
        MOV AH, 9
        INT 21H

    MOV AH, 4CH
    INT 21H

    MAIN ENDP
END MAIN
```
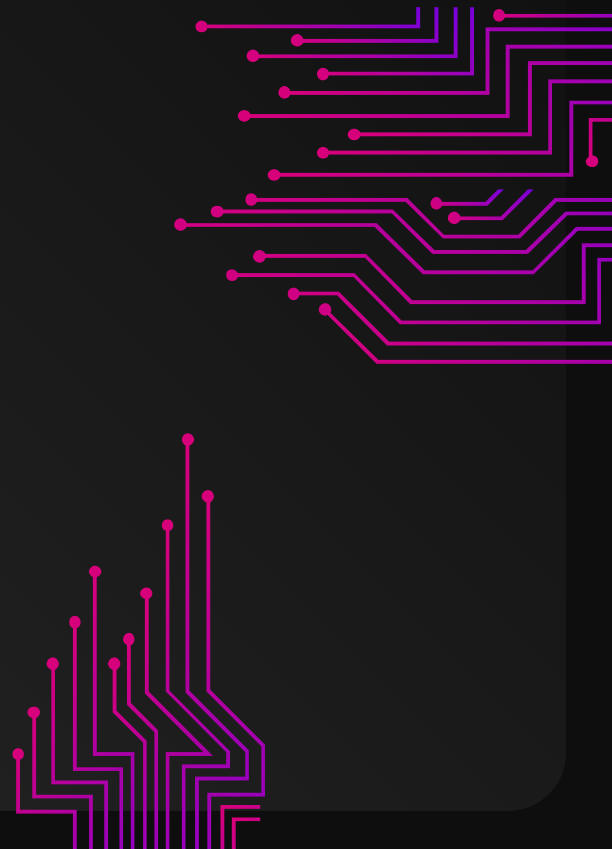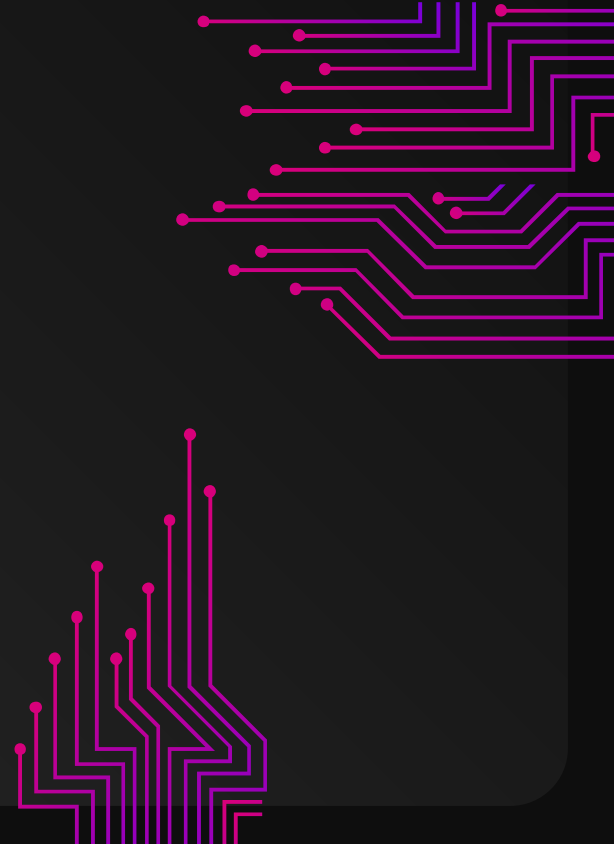
What is C Language ?

- 1970, Dennis Ritchie at Bell Labs
- High/Mid level language.
- general purpose, and structured language.

Why C language?

- Super Fast
- Large Community and Resources
- Easy to learn
- widely used for system programming, embedded systems, and developing high-performance applications.

- C++, C#, Python, Ruby, PHP… written using c language

Let's start coding

Thanks!

Do you have any questions?
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