FAVOREDONLINE SKILLS ACQUISITION NETWORK https://favoredonline.com

SHE MODEL TECH
Promoting technology development
among women in Africa

VARIABLE AND DATATYPES

Variable: Is a name use to store data of a particular type. Just like creating a folder to store all your project, to access the project it will require that you name it. The name given to the project is what we call variable and what the project name does is to save all your project files this is the same as what variable does, to store related data's.

Here, there is a condition attached to it. "Related data" which means you can only stores values with the same data types.

The question is now, **what is data type?** This are different categories of data's that can be stored in a named variable in C programming.

Rules for naming a variable

A variable name can contain letters in both uppercase and lowercase letters

A variable name can contain digits and underscores.

The first letter of a variable should be either a letter or an underscore.

There is no rule on how long a variable name (identifier) can be

DATA TYPES

- **Types of Data types in C**

Int: This are Integers that is whole numbers example 4, 5000, 100000000000

This can be

1. **Signed Int: This allows negative and positive numbers**
2. **Unsigned Int: This allows only positive numbers**
3. **Long Int: This allows large integer value**
4. **Short Int: This allows small integer number**

Number 1 – 4 is called Derived data types

Float: This are decimal numbers with short precision before "dot" e.g 2.5, i4.5, 314.6

Double: This are decimal number with long precision before "dot" example 2145.6, 2453.9, 23333444.5555

1. **Long Double: This allows large decimal numbers (Derived data types)**

Char: This is known as character. They are alpha-numeric alphabet example a, e, $, &, %

Void: This stores nothing, No data type.