GSET - Programming with Mr. Hill

Tristan Hill

Tennessee Technological University

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Module 5 - Arrays

Module 5 - **Arrays**

- Arrays in Programming

- Variables and Memory

- Initialization, Assignment, and Access

- C++ Example

- Tutorial 5 -

Arrays in Programming

We have used scalar variables in the previous exercises. Have you used this term before?

Arrays in Programming

Now, we are going to learn to use array variables in C++.

- What is a array?

- Why are arrays important in computer programming?

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Variables and Memory

Variables are stored in the RAM (Random Access Memory). Each variable has a name, a value, and a memory address.

```
...

int x;
float
    our_value=43.5;

...
```

Name	Value	Memory Address

Variables and Memory

Initialization, Assignment, and Access

Initialization - Each array must be initialized before it is used with the curly brackets.

Name	Value	Memory Address

. . .

. . .

Initialization, Assignment, and Access

Assignment - Values are stored in the array with the assignment operator
and the square brackets.

Name	Value	Memory Address

...

...

Initialization, Assignment, and Access

Access - Values are stored in the array with the assignment operator and the square brackets.

	Name	Value	Memory Address
. . .			
. . .			

C++ Example

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