

## Forenoon Session

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Course: C++ Programming

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### Report:

- Introduction to data types: define type of data a variable
- Int, float, double: short for integer, shortened term for floating point, double is fundamental data type
- String, char, bool: means an ordered sequence of characters, It is defined by C++ to always be 1 byte  
Bool has been introduced to hold a boolean value
- Variable naming rules: range from 1 to 255 characters
- Arrays: is a collection of elements of the same type
- Using arrays in loops: loop through array elements
- Arrays in calculations: variable that can store multiple values
- Multi-Dimensional Arrays: we can define in simple words as arrays of arrays
- Introduction to Pointers: allows to have pointer on a pointer

- More on pointers: point to variable whose address they store
- Dynamic memory: refers to perform memory allocation
- The size() of operator: generates storage size of an expression

### ⇒ Functions:

- Introduction to functions
- Function parameters
- Functions with multiple parameters
- The rand() functions
- Default Argument
- Function overloading
- Recursion
- Passing Arrays to functions
- Pass by Reference with pointers.