Variable Declarations



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Agenda

- Data Classification
- Data Types.
- > Variable Declarations.
- > ASCII

Data Classification

- Different data requires different way of handling data in Computer.
- Factor responsible for data classification
- Memory size required to store data
- Method to convert data into binary for internal representation
- Kind of operations performed on data

Data Types

- bool
- int
- float
- double
- char
- void

Variable Declarations

ASCII

American Standard Code for Information Interchange

```
Character encoding :-1. ASCII → 256 (0-255)
```

```
int x = 5; 5 \rightarrow 101
4bytes = 32bits
```

2. Unicode

3. -----

4. -----

5. -----

0000000 00000000 0000000 00000101

float vs double

4Bytes

8Bytes

8.0

$$0.4*2 = 0.8$$

101.1100110011001100110011001100

4Bytes

5.8

8Bytes