Ch 2: Introduction to C++

CS 1428 Fall 2011

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Lecture 4

sizeof

- sizeof function returns size of a data type in bytes.
- The result is system-dependent.
- The argument may be a data type: sizeof(int)
 // result is 4 on most systems
- The argument may be a variable: double salary; cout << sizeof(salary); // result is 8 on most systems

Variable Assignment and Initialization

- <variable> = <rhs>
- = is the assignment operator
- The left hand side must be a variable
- Variable initialization: assigning values in a variable definition:
 - double bankRate = 0.15;
 - int age = 21;

Arithmetic Operators

- Arithmetic operators manipulate numbers
- Unary operators have one operand/argument:
 - -5
 - +9
 - -X
- minus sign (unary op) is called the negation operator.

Arithmetic Operators

Binary operators have two operands:

 Integer division: if both operands are integers, the result has no fractional part

```
21 / 5 //value is: 4
21.0 / 5 //value is: 4.2
21 % 5 //value is: 1
```

Comments

Single-Line Comments

```
// this text is ignored, to end of line
```

Multi-Line Comments

```
/* Anything occuring between a slash star and
  a star slash is ignored. Even when spanning
  multiple lines. */
```

 Use comments to explain your code to a human reader who knows C++.