* Boilerplate Code
  + #include <iostream>

#include <string>

using namespace std;

Int main()

{

return 0;

}

* cout << “Hello World!” << endl;
  + cout << setprecision(3) << 3.582; //3.58
  + cout << fixed << 4.2342; //4.234200
  + cout << scientific << 4.2342; //4.234200e+00
  + cout << showpoint << 4.2342; //4.23420
  + cout << setw(3) << setfill(‘#’) << 32; //#32
  + cout << setw(8) << setfill('#') << left << 4.2342 << endl;//4.2342##
  + cout << setw(8) <<setfill(‘#’) << right << 4.2342 << endl;//##4.2342
* cin >> x;
  + cin >> payRate >> hoursWorked; = cin >> payRate; cin >> hoursWorked;
  + cin.ignore(100, ‘A’); //ignores the first 100 characters or all characters until the character ‘A’ is found, whichever comes first
  + << skips spaces, cin.get(x) gets the next char even spaces and stores it in x
    - Input: A 35

char ch1, ch2;

int num;

cin.get(ch1);

cin.get(ch2);

cin >> num;

* + Cin.get and >> removes a character from input
    - Input: chris

cin >> ch;//c

cin >> ch;//h

* + cin.putback(ch);//puts back the last removed character from cin
    - cin.get(ch);//r
    - cin.putback(ch);
    - cin.get(ch);//r
  + ch = cin.peek();//is like cin.get() except doesn’t remove from the input.
    - ch = cin.peek();//i
    - cin.get(ch);//i
  + cin.clear(); //allows for a cin statement to accept input again

cin.ignore(200, ‘\n’); //clear the buffer just in case

* + getline(cin, myString); //how you get a string
  + #include <iomanip>
* Escape sequences
  + \n
  + \’
  + \”
* File I/O is a five-step process:
  + #include fstream

ifstream inData;

ofstream outData;

inData.open(sourceName);

outData.open(sourceName);

inData >> payRate;

outData << “The paycheck is: $” << pay <<endl;

inData.close();

outData.close();

* Precedence
  + !, +, -
  + \*, /, %
  + +, -
  + <, <=, >=, >
  + ==, !=
  + &&
  + ||
  + =
* Assert
  + assert(denominator);

Quotient = numerator / denominator;

* + If denominator is 0, the assert returns an error and kills the program.
* #include <cmath>

pow(x,y)

sqrt(x)

floor(48.79);//48

abs(-7);//7 int OR fabs(-7.2342);//7.2342 double

ceil(56.23);//57

* #include <cctype>

islower(x);// returns 1 if lowercase

isupper(x);

tolower(x);//returns the lowercase value of x

toupper(x);