CS 111
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If not, then what?

If the initial query is false, then what else can we do?

- Do nothing
- Fall to default - else
- have another condition
If Else Logic Flow

: Start statement

Condition
(Test Expression)

False
Statement 2
(Body of else)

True
Statement 1
(Body of if)

Rest statement
If else Model

if ( condition ){
    /* body of if
       statement do something here
    */
}
else {
    /* body of else
       statement do something else here
    */
}

Ex: Print either even or odd for number.
if (number % 2 == 1) {
    cout << "Odd." << endl;
}
else {
    cout << "Even" << endl;
}
/* Check if user’s age is legal to drink in US print legal or illegal */
#include <iostream>
using namespace std;
int main(){
    //declare variables
    int age;
    cout << "Please enter your age: ";
    cin >> age;
    if ( age >= 21 )
        cout << "Legal to drink. " << endl;
    else
        cout << "Illegal to drink. " << endl;
    return 0;
}
program

/* Ask user for an amount to calculate NYC clothing/footwear tax, detect and end program for bad input. */

int main(){
    double amount;
    cout << "Please enter your amount: ";
    cin >> amount;
    if (amount < 0){
        cout << "Bad input.\n";
        return 0;
    }
    double tax = amount * 0.0875;
    if (amount < 110)
        cout << "No tax.\n";
    else
        cout << "Tax: " << tax << endl;
    return 0;
}