

Introduction to Software Development

CSCI 101 Week Seven
Dannelly's Sections

Creation of Software

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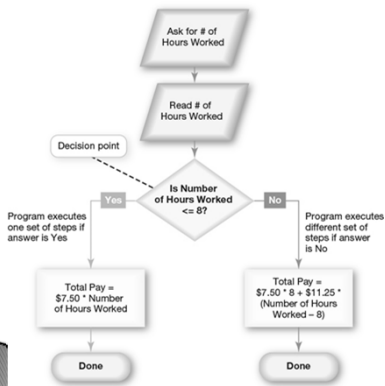
Software Terminology

- Algorithm
- Programming
- Source Code
- Compiler
- Debugging
- Scope Creep

Example: figuring out today pay

- ▶ **Input:**
 - number of hours worked today
- ▶ **Output:**
 - today's paycheck
- ▶ **Processing:**
 1. read the number of hours worked
 2. Pay \$7.50 for first 8 hours, then \$11.25 for overtime
 3. output the total pay

The Algorithm



The Source Code

```

main ()
{
  integer: hours, pay;
  // prompt user for input
  print "Enter hours worked";
  input hours;
  // calculate pay
  if (hours <= 8)
    pay = hours * 7.5;
  else
    pay = (8*7.5) + (hour-8)*11.25;
  // output
  print "Pay is $", pay;
}

```

Ask the OS for memory

Comments are ignored by the compiler

Make a decision

calculate answer

print answer
