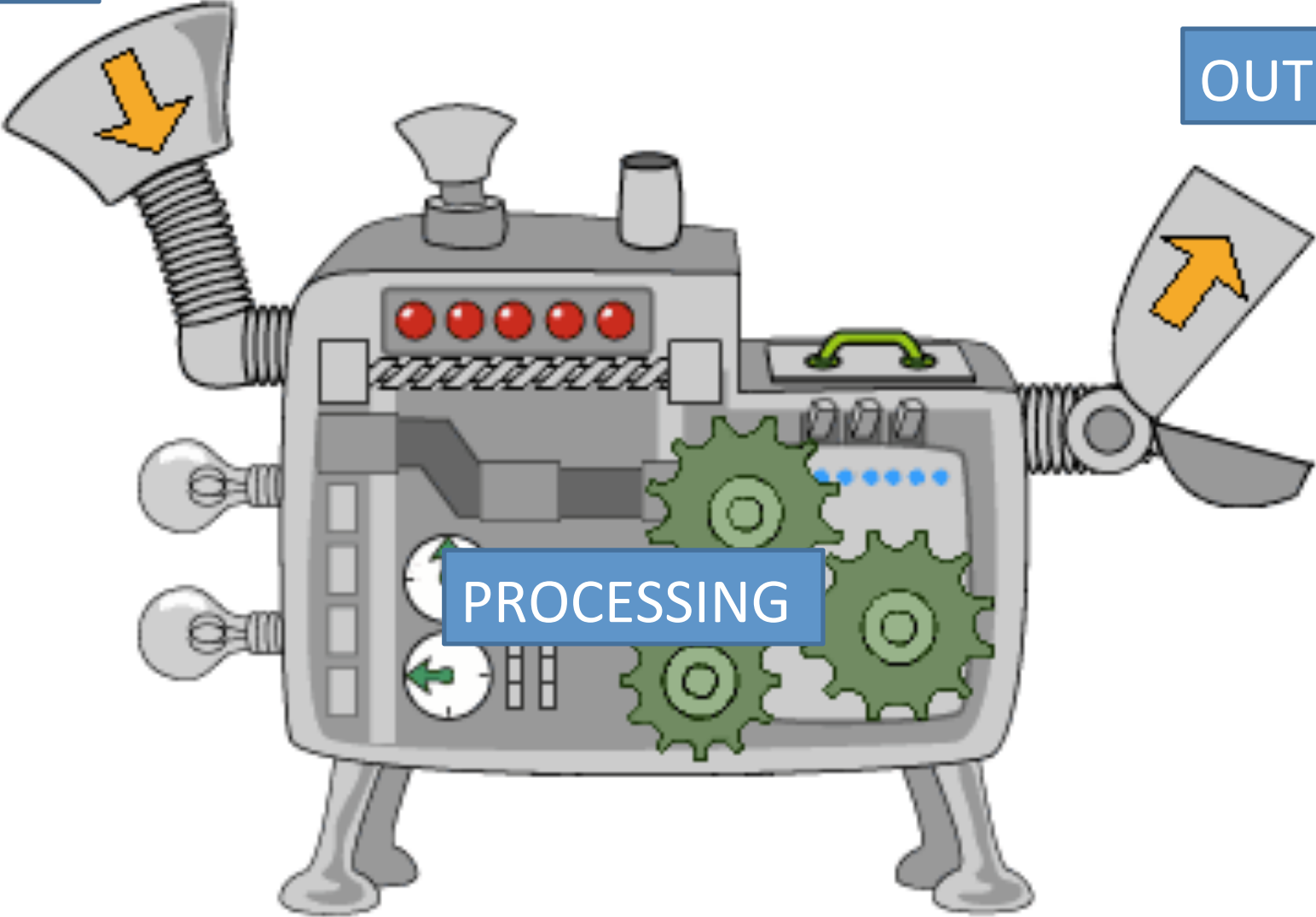
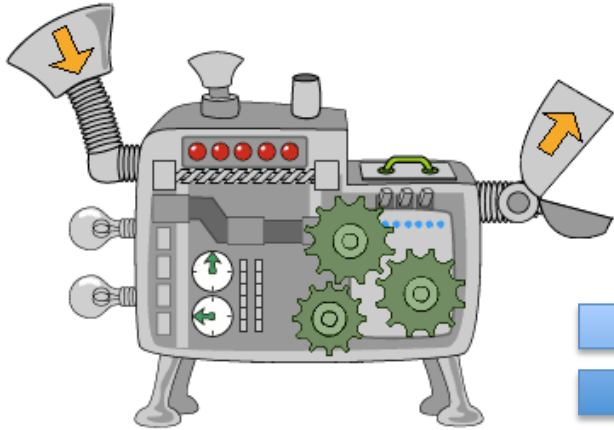


INPUT

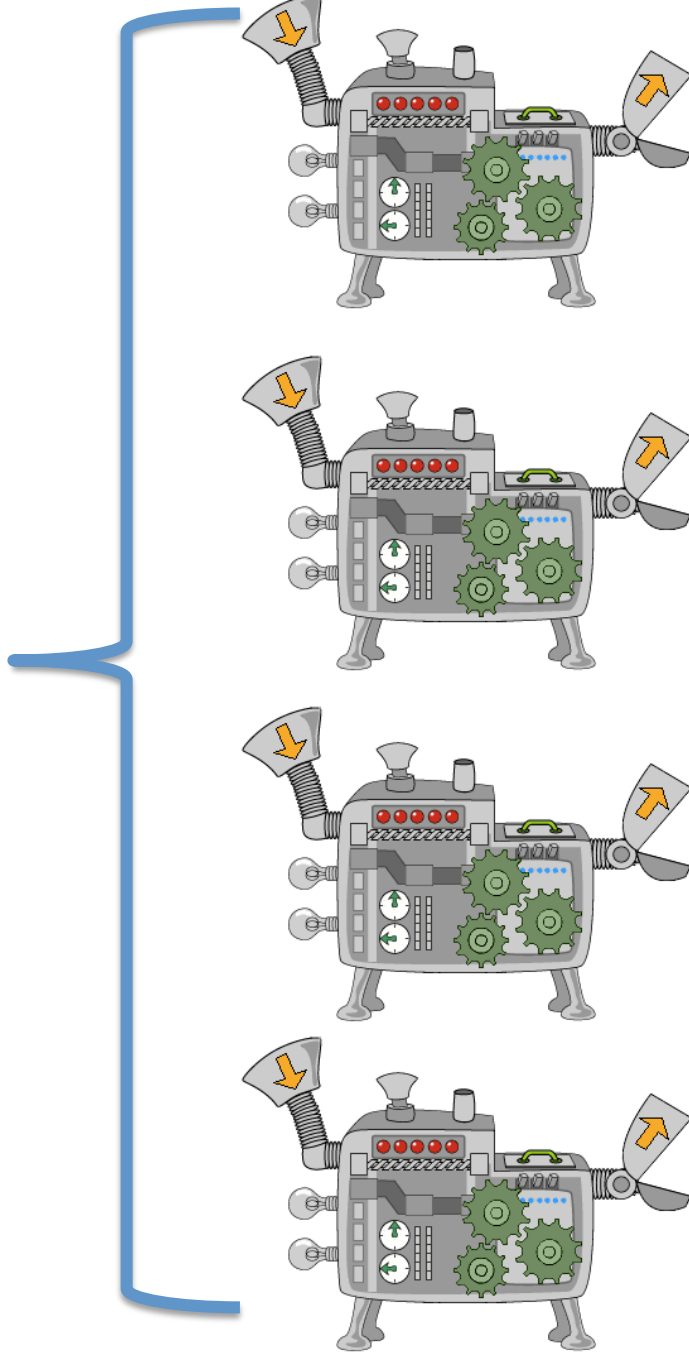
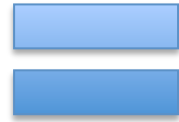
OUTPUT



PROCESSING



Make dinner



Make appetizer

Make salad

Make entree

Make dessert



Supercalifragilisticexpialidocious!
Even though the sound of it
Is something quite atrocious
If you say it loud enough
You'll always sound precocious
Supercalifragilisticexpialidocious!

Um diddle diddle diddle um diddle ay
Um diddle diddle diddle um diddle ay!

Because I was afraid to speak
When I was just a lad
My father gave me nose a tweak
And told me I was bad
But then one day I learned a word
That saved me achin' nose
The biggest word I ever heard
And this is how it goes: Oh!

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Um diddle diddle diddle um diddle ay
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He traveled all around the world
And everywhere he went
He'd use his word and all would say
"There goes a clever gent"
When Dukes and maharajas
Pass the time of day with me
I say me special word and then
They ask me out for tea

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Functions

- Mini-algorithms inside a program are called *functions*.
- To use a function, we must *define* it first.

Defining a function

Gives your function a name so it can be run later

- **Syntax:**

```
def name( ):  
    statement           # Notice how these  
    statement           # lines are indented.  
    statement           # This is how Python knows  
    ...                 # where a function definition  
                        # begins and ends.
```

Pick a name for your function that describes what it does!
(Just like you pick variable names that describe what the
variable holds.)

Defining a function

Gives your function a name so it can be run later

- **Syntax:**

```
def print_chorus():  
    print("Supercalifragilisticexpialidocious!")  
    print("Even though the sound of it")  
    print("Is something quite atrocious")  
    print("If you say it loud enough")  
    print("You'll always sound precocious")  
    print("Supercalifragilisticexpialidocious!")
```

Functions

- Mini-algorithms inside a program are called *functions*.
- To use a function, we must *define* it first.
- After defining a function, to run the code inside, you *call* the function.

Calling a function

Runs the code inside the function definition

- **Syntax:**

name()

After defining a function, you can call it any number of times you want.

Each time it is called Python acts as if you had typed in all of the lines of the function definition.

The main() function

- From this point on, always ***define*** a main() function in your programs.
- Always ***call*** the main() function as the last line of your program.


```

def print_chorus():
    print("Supercali...")
    (etc)

def print_um_diddle():
    print("Um diddle diddle...")
    (etc)

def print_verse1():
    print("Because I was afraid to speak...")
    (etc)

# A function for the "main" program.
def main():
    print_chorus()           # Print the chorus
    print_um_diddle()       # Print the um diddles
    print_verse1()          # Print the 1st verse
    print_chorus()          # Print the chorus again
    print_um_diddle()       # Print the um diddles again
    print_verse2()          # Print the 2nd verse
    print_chorus()          # Print the chorus the last time

main()                       # Start the program

```

- You are in charge of dessert for Thanksgiving dinner. You decide to make two pumpkin pies and an apple pie.
- Write a program that ***defines*** three functions:
 - make_apple() should print a description of how to make an apple pie
 - make_pumpkin should print a description of how to make a pumpkin pie
 - main() should ***call*** make_apple() and make_pumpkin() appropriately to make the pies.
- Don't forget to call main() at the end of your code!

- When a function is called, Python will
 - "jump" to the first line of the function's definition,
 - run all the lines of code inside the definition, then
 - "jump" back to the point where the function was called.

```
1 def twinkle():
2     print("Twinkle twinkle little star")
3     print("How I wonder what you are")

4 def main():
5     twinkle()           # Call (run) the twinkle function.
6     print("Up above the world so high")
7     print("Like a diamond in the sky")
8     twinkle()         # Call the twinkle function again.

9 main()                 # Call main() to start the program.
```