Week\_29

# Trinity Intro to Technology 04/22/2024

Today we will start with a review, Have a typing test segment, Then learn about flow charts...

What is our Number # 1 Rule...

Learn where A specific key is located and

. . . . . . . .

Answer: don't look at the keyboard.

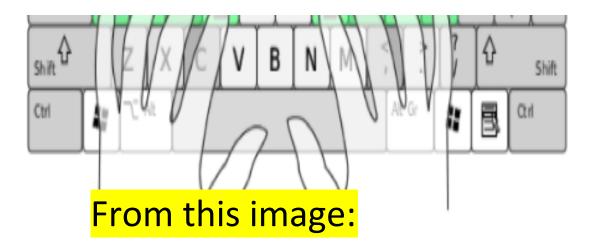
Learn where A specific key is located and which finger pressed that key, also which Home Row key the finger is coming from. Memorize the position of the key, and which finger presses it. Then during typing do not look at the keyboard.

### Lets begin our class with a brief review:

Touch Typing - is a style of typing without looking at the keys as you type. Although the phrase refers - typing without using the sense of sight to find the keys. A <u>touch typist will</u> <u>know the location of the keys on the keyboard</u> <u>through muscle memory</u>.

Learn the finger for each key and memorize the location, the practice typing each key while NOT looking at the keyboard.





Touch Typing Question:

With your fingers on the home row: What key does the right hand (4th) finger hit? What key does the left hand (2nd) finger hit? What key does the right hand (2nd) finger hit? What key does the right hand (3rd) finger hit? What key does the left hand thumb hit? What key does the left hand little(5th) finger hit?

What key does the left hand (4th) finger hit? What key does the right hand little(5th) finger hit?

Which finger do you use for the [Space Bar]? Which finger do you use for the [A] Key? Which finger do you use for the [J] Key? Which finger do you use for the [D] Key? Which finger do you use for the [L] Key? Which finger do you use for the ["enter"] Key?

#### More about Coding.

Which finger do you use for the ["enter"] Key?

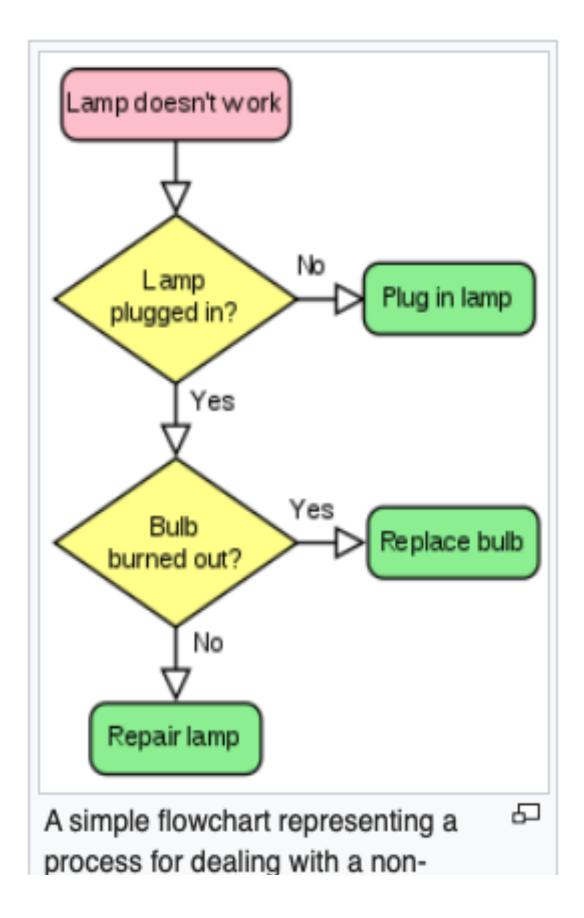
## More about Coding:

How does a Computer Programmer Decide how to write a computer program?

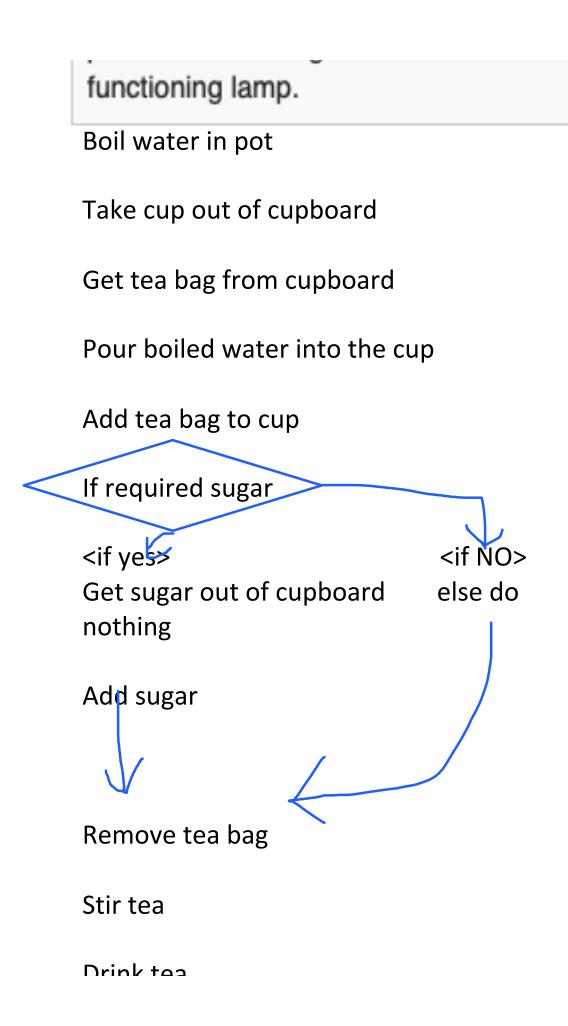
One Answer is to display the Objective in a visual format:

A **flowchart** is a type of <u>diagram</u> that represents a <u>workflow</u> or <u>process</u>. A flowchart can also be defined as a diagrammatic representation of an <u>algorithm</u>, a step-by-step approach to solving a task.

The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem. Flowcharts are used in analyzing, designing, documenting or managing a process or program in parious fields.



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### **Building blocks**

#### **Common symbols**

The <u>American National Standards Institute</u> (ANSI) set standards for flowcharts and their symbols in the 1960s.

$\longrightarrow$	Flowline (Arrowhead) <sup>[15]</sup>	Shows the process's order of operation. A line coming from one symbol and pointing at another. <sup>[14]</sup> Arrowheads are added if the flow is not the standard top-to-bottom, left-to right. <sup>[15]</sup>
	Terminal <sup>[14]</sup>	Indicates the beginning and ending of a program or sub-process. Represented as a stadium, <sup>[14]</sup> oval or rounded (fillet) rectangle. They usually contain the word "Start" or "End", or another phrase signaling the start or end of a process, such as "submit inquiry" or "receive product".

	Process <sup>[15]</sup>	Represents a set of operations that changes value, form, or location of data. Represented as a rectangle. <sup>[15]</sup>
$\bigcirc$	Decision <sup>[15]</sup>	Shows a conditional operation that determines which one of the two paths the program will take. <sup>[14]</sup> The operation is commonly a yes/no question or true/false test. Represented as a diamond (rhombus). <sup>[15]</sup>
	Input/Output <sup>[15]</sup>	Indicates the process of inputting and outputting data, <sup>[15]</sup> as in entering data or displaying results. Represented as a parallelogram. <sup>[14]</sup>

### **Other Symbols**

Shape	Name	Description
$\bigcirc$	Data File or Database	Data represented by a cylinder (disk drive).
	Document	Single documents represented a rectangle with a wavy base.
		Multiple documents represented stacked rectangle with a wavy base.
	Manual operation	Represented by a trapezoid with the longest parallel side at the top, to represent an operation or adjustment to process that can only be made manually.
	Manual input	Represented by quadrilateral, with the top irregularly sloping up from left to right, like the side view of a keyboard.
	Preparation	

Advantage of using Flow Charts:

The Programmer can visually see the "Flow" of the computer logic, And design a pattern that will accomplish The goals...

Also it is easy to change the design, By a simple change to the logic...

After the project is complete,

A new programmer can view the flow chart and see and understand the steps the original programmer took to accomplish the goals

Students: it takes 3 things to get something done:

- 1) Know what to do
- 2) Decide how to do it
- 3) Do it, perform the tasks to accomplish the tasks

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I want to encourage you to:

-> Do hard Things

Here is what that means.

In life there are challenges, and some are easy while other challenges are hard. If you can do a hard thing, that requires time and your energy and your thoughts, knowing you may get frustrated along the way. When you accomplish a hard thing there is a real sense of "Ya! I did it" a satisfaction that is a good feeling. Once you finish a hard thing, the next hard thing is easier to finish.

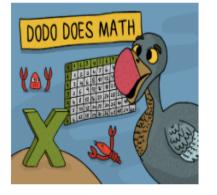
The Bible says: in the book of Joshua "Be Brave and Courageous, for the Lord your God is with you"... How can that help us to do hard things?

I would like you to tell me one thing that was "Hard" that you accomplished and it made you Nextgoodwithen you driver of gene to anyone share the benefit of finishing the "Hard Thing" Chatoyou backsen pushed... Universal Resource Locator

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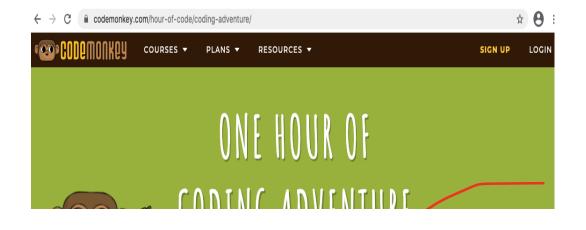


CODING ADVENTURE

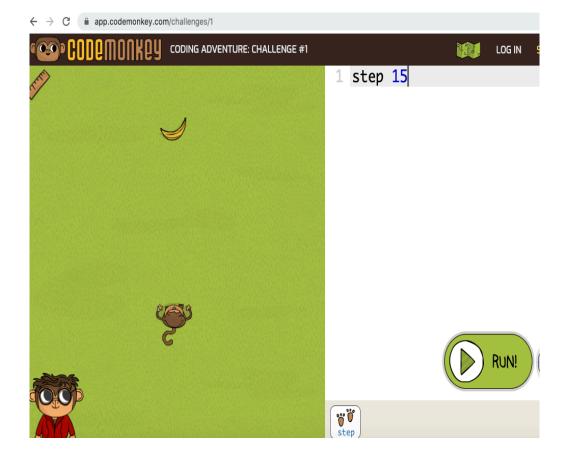
#### DODO DOES MATH | GRADES 2+ | CODING ADVENTURE | GRADES 2+ COFFEESCRIPT | COFFEESCRIPT

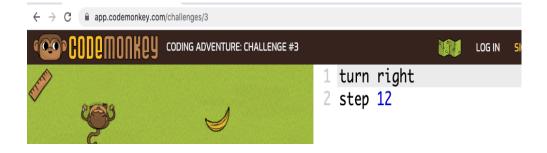
Students will write real code as they solve math to help a dodo find her missing eggs.

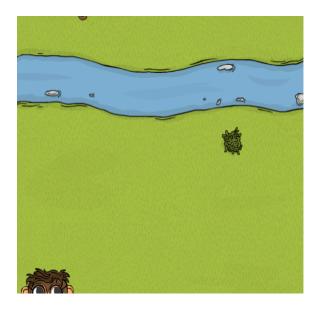
Students will help a cute monkey catch bananas in fun-filled coding challenges.



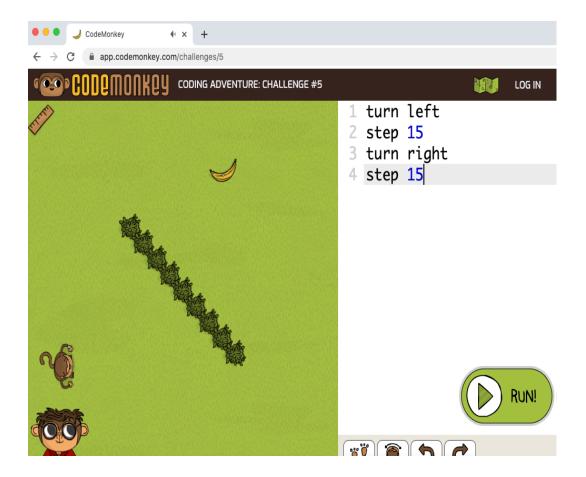








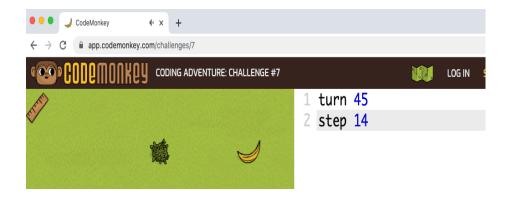




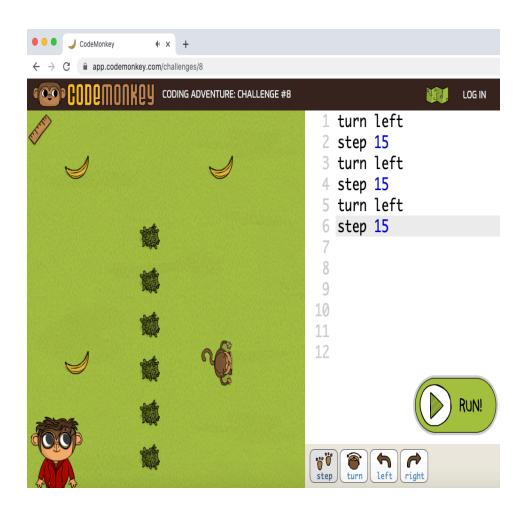
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		5 turn right
		6 step 4
0.0		7 8 9
		10 11
	<b>E</b>	12 13 14 15 RUN!
ATA		step turn left right

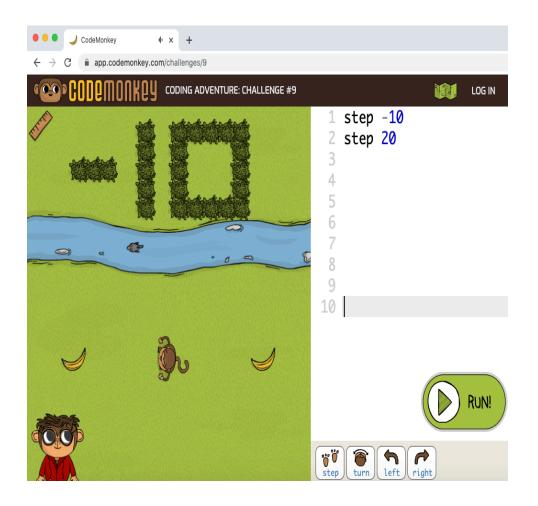
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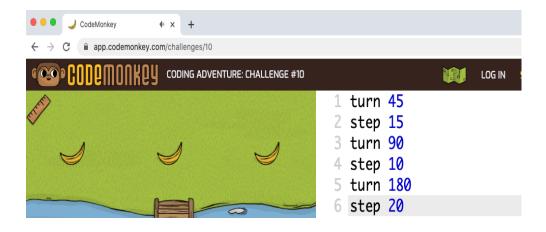
step turn left right



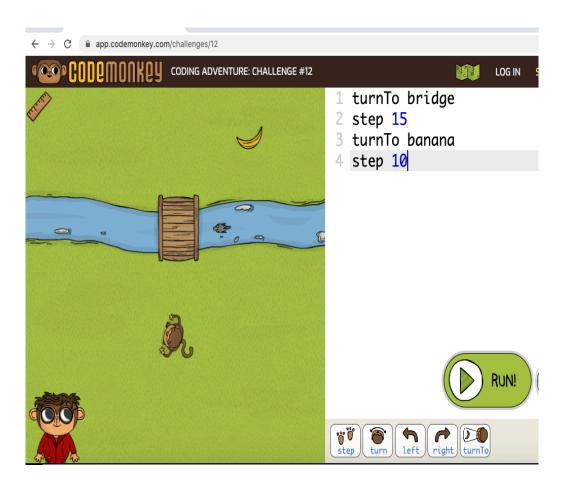






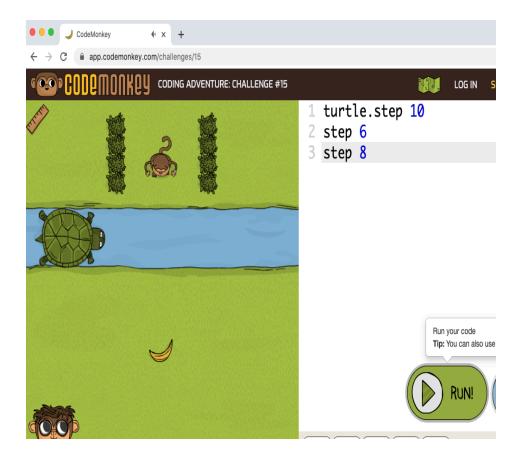






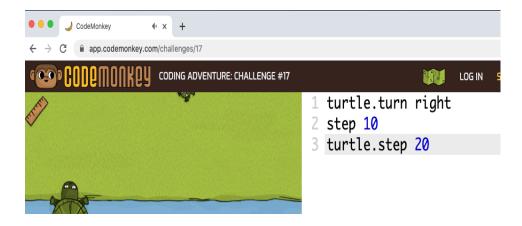
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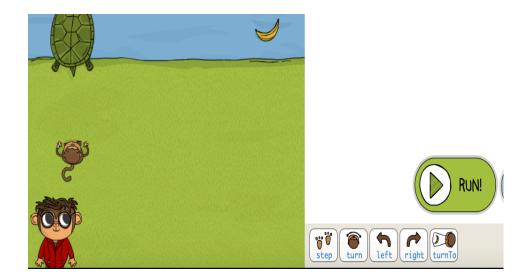


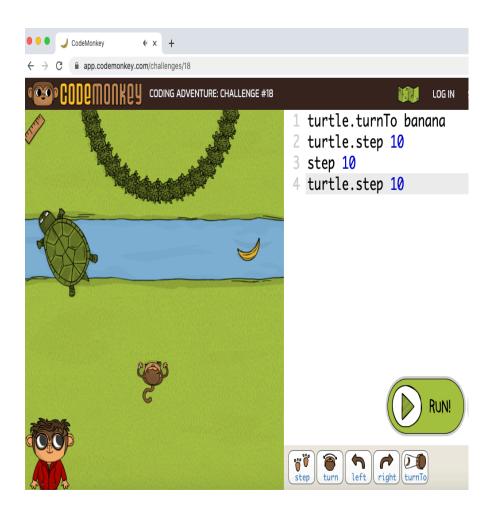




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