

Computers And Power of Programming



اَللّٰهُمَّ ارْزُقْنِيْ عِلْمًا نَّافِعًا وَاسِعًا عَمِيْقًا

اَللّٰهُمَّ ارْزُقْنِيْ رِزْقًا وَّاسِعًا حَلَالًا طَيِّبًا
مُّبَارَكًا مِنْ عِنْدِكَ

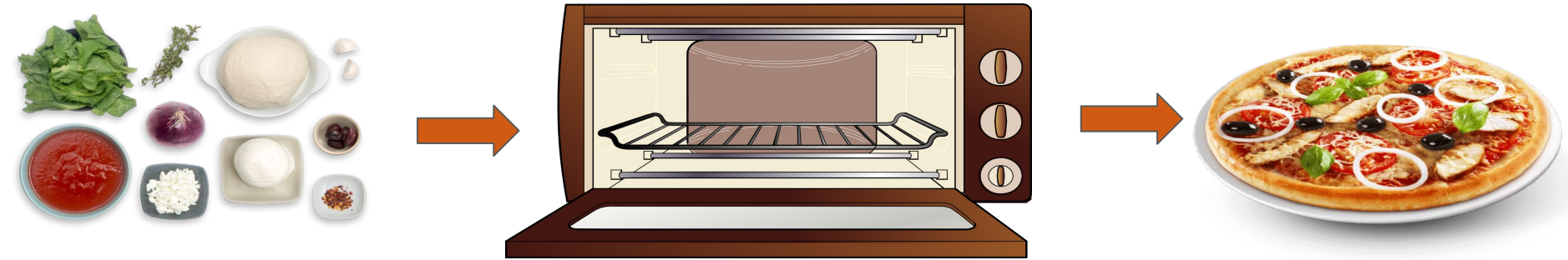
What is a Computer

Computer has revolutionized the world



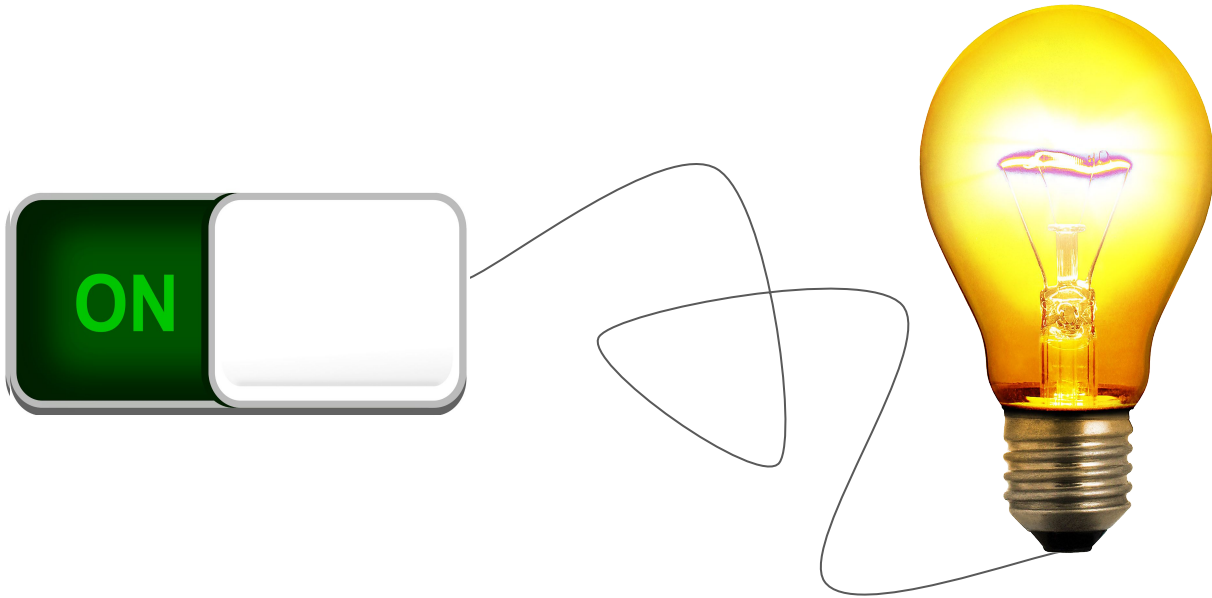
What does a machine do?

Every machine takes **input**, **process** on it and gives **output**



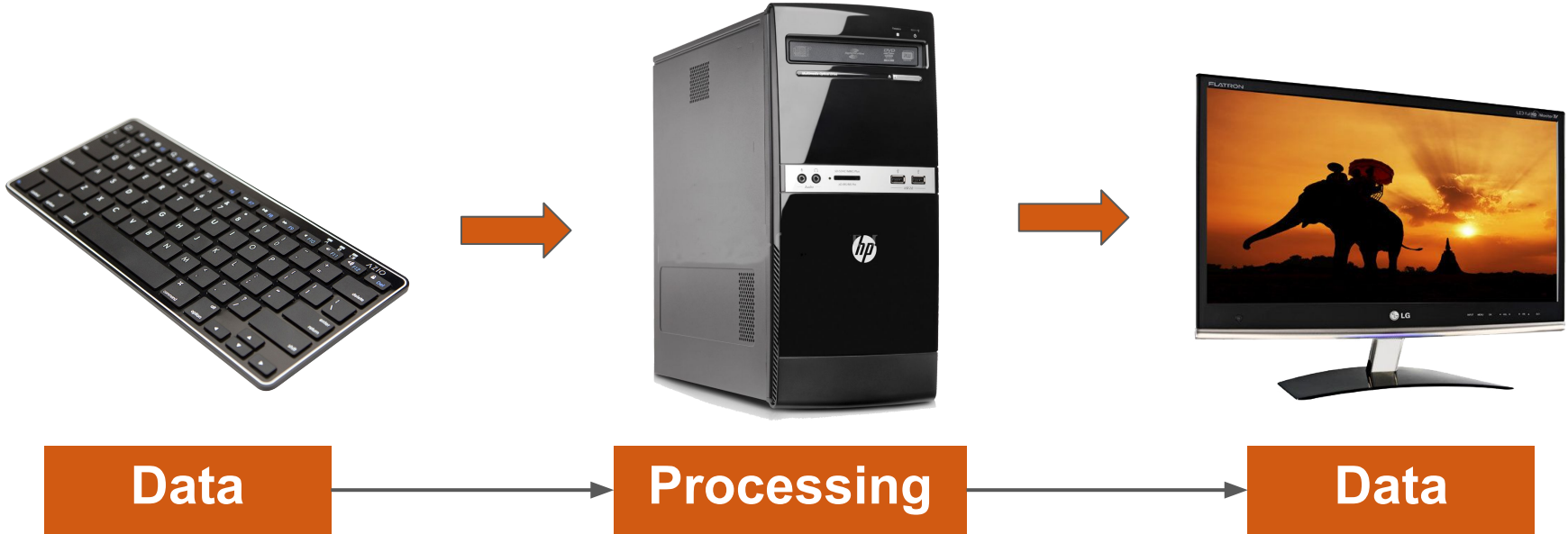
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Computer is also a machine

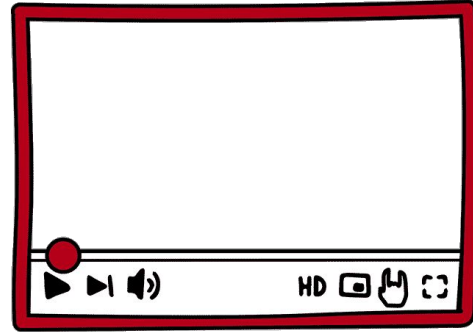
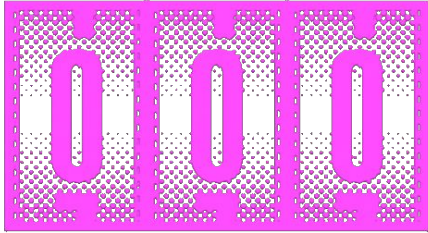
It takes **input**, **process** on it and gives **output**



What is Data

Data can be of the following types.

WORK



Textual

Numeric

Multimedia

Processing on Text

Input

Unsorted Data
10
28
05
18
21
17



Processing



Output

Sorted Data
05
10
17
18
21
28

Processing on Image

Input



Processing



Output

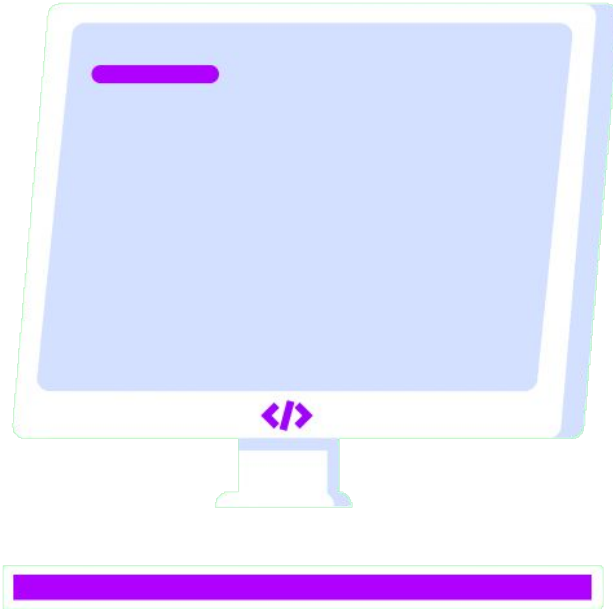


What makes the Computer Powerful?

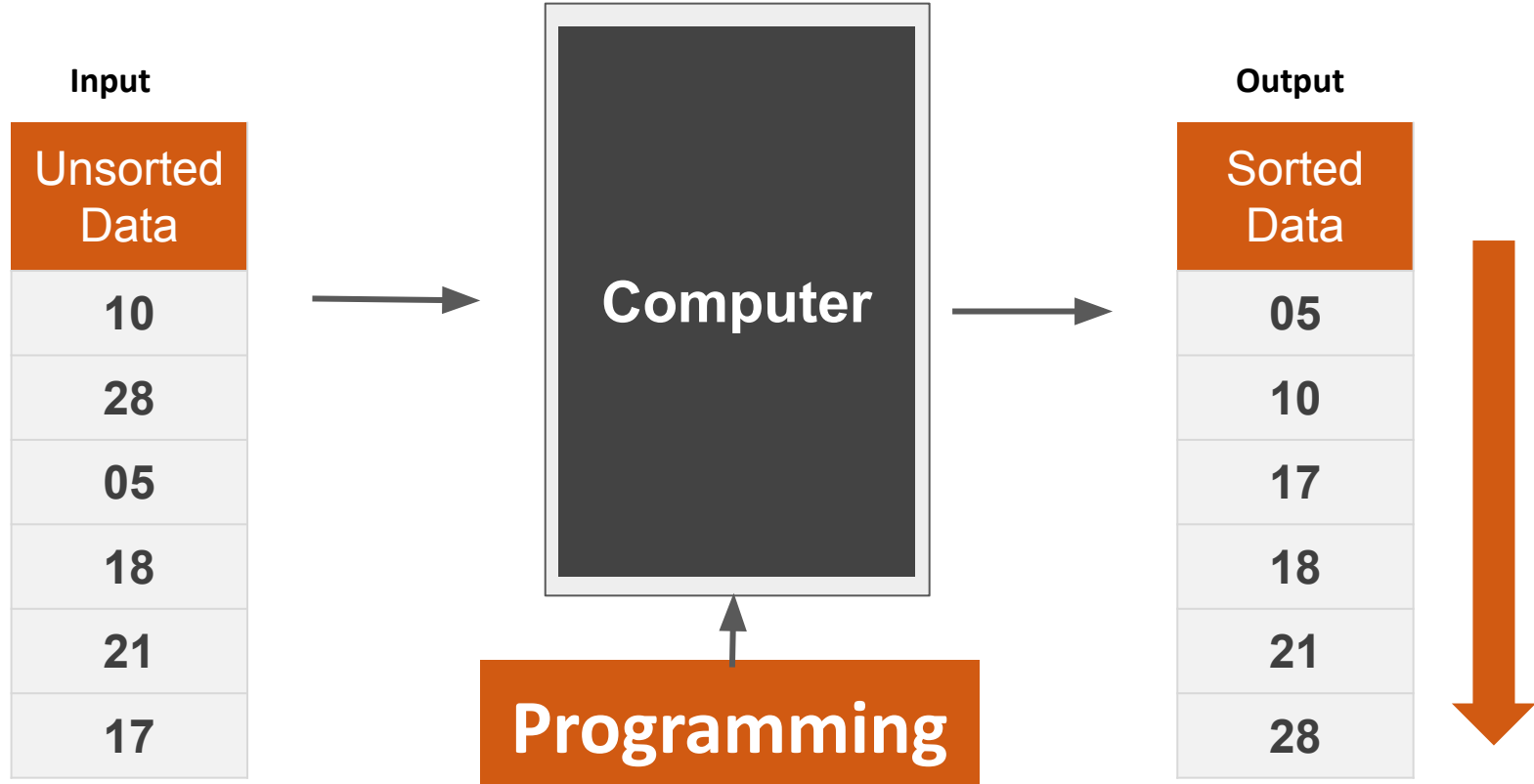


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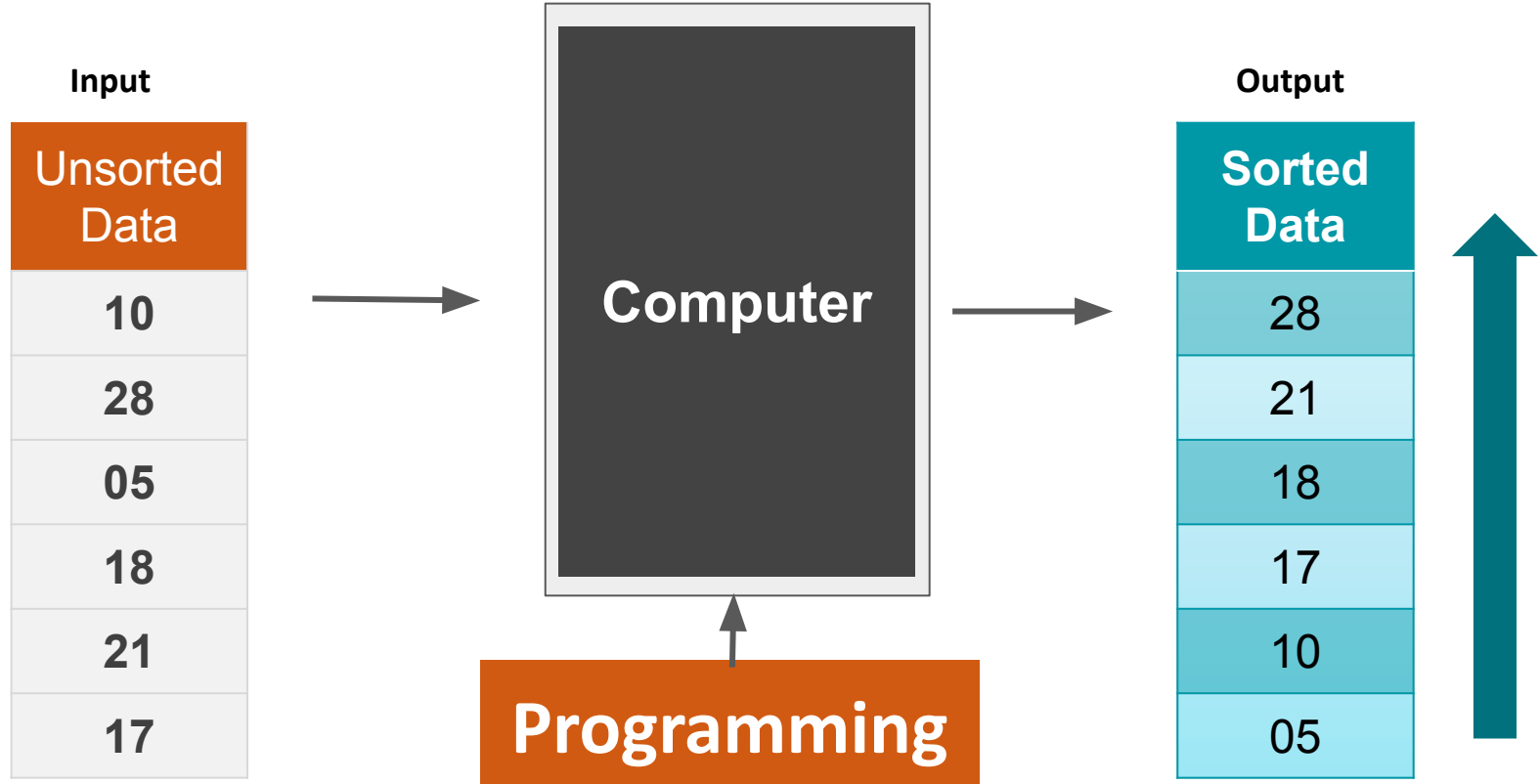
We can give **instructions**, that tells the computer how to convert an input to relevant output



Sorting Ascending Order



Sorting Descending Order



|| The Power of Programming



Learning Objective

Now, you should be able to
Explain Why Computers are More
Powerful than Other Machines.



Self Assessment

1. What is **Machine**?
2. What type of **Input** we can give to Computer?
3. What is **Difference** between computer and other machines?
4. What is **Programming** ?



Conclusion

- Computer is a machine that **Converts** one form of **Data** into other form of **Data**.
- Traditional Machines have **Predefine Behaviour** that can not be changed.
- Unlike other machine, we can instruct Computer to do **Different Tasks**.
- It is achieved through **Programming**.

