

Basic Programming Elements

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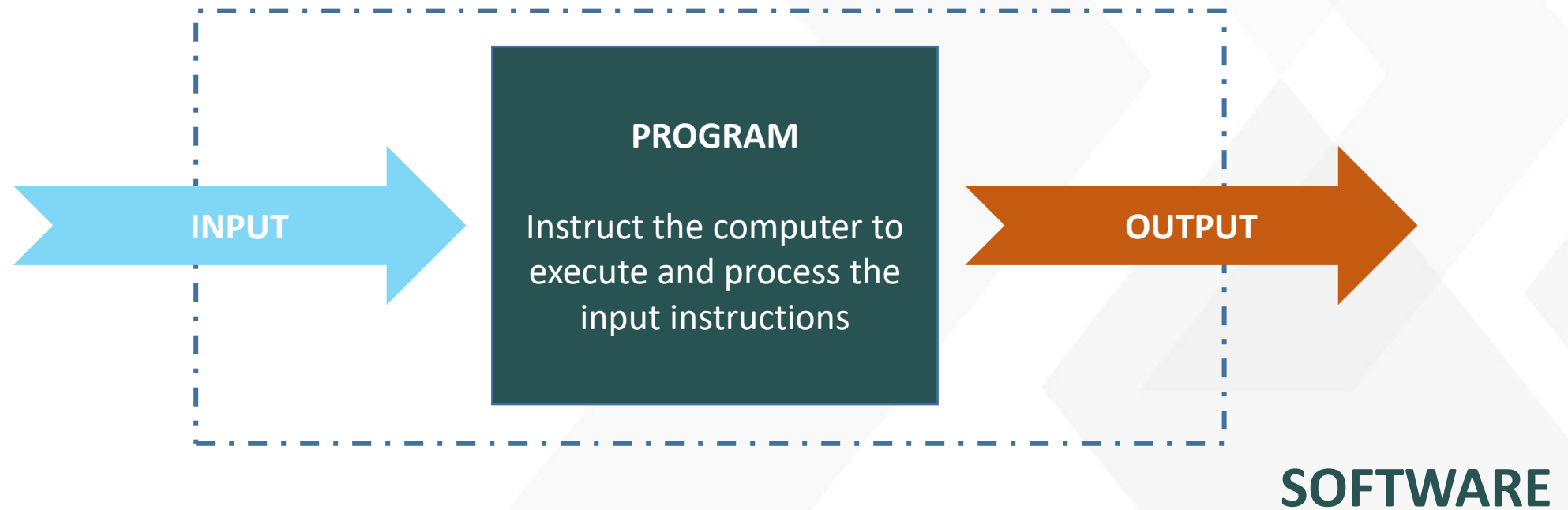
Lecture 1 – Topics

1. Introduction to programming
2. Computer programs and business use
3. Database and its requirement in the software applications
4. IDE – Integrated development environment

Introduction to Programming

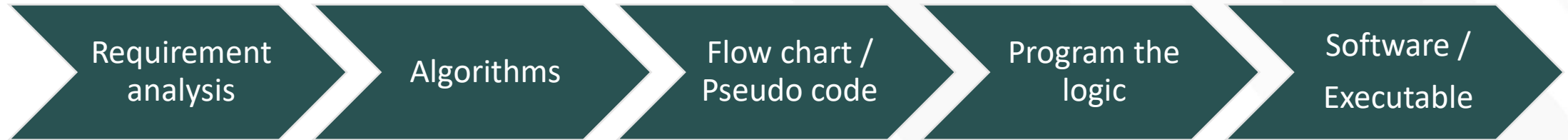
Computer program is set of instructions that are fed in the computer to perform specific tasks.

A collection of computer programs, and related data that tell the computer how to work and perform the tasks is referred to as **Software**.



Computer programming

Computer programming is the process of designing and building an executable computer program to accomplish a specific result or to perform a specific task.



Business Use:

Desktop applications, Web applications / websites, Mobile applications, Scripting, Analytics, etc..

Database

A database is collection of information that is specially organized for rapid search and retrieval by a computer. Generally all the databases are categorized into two main categories.

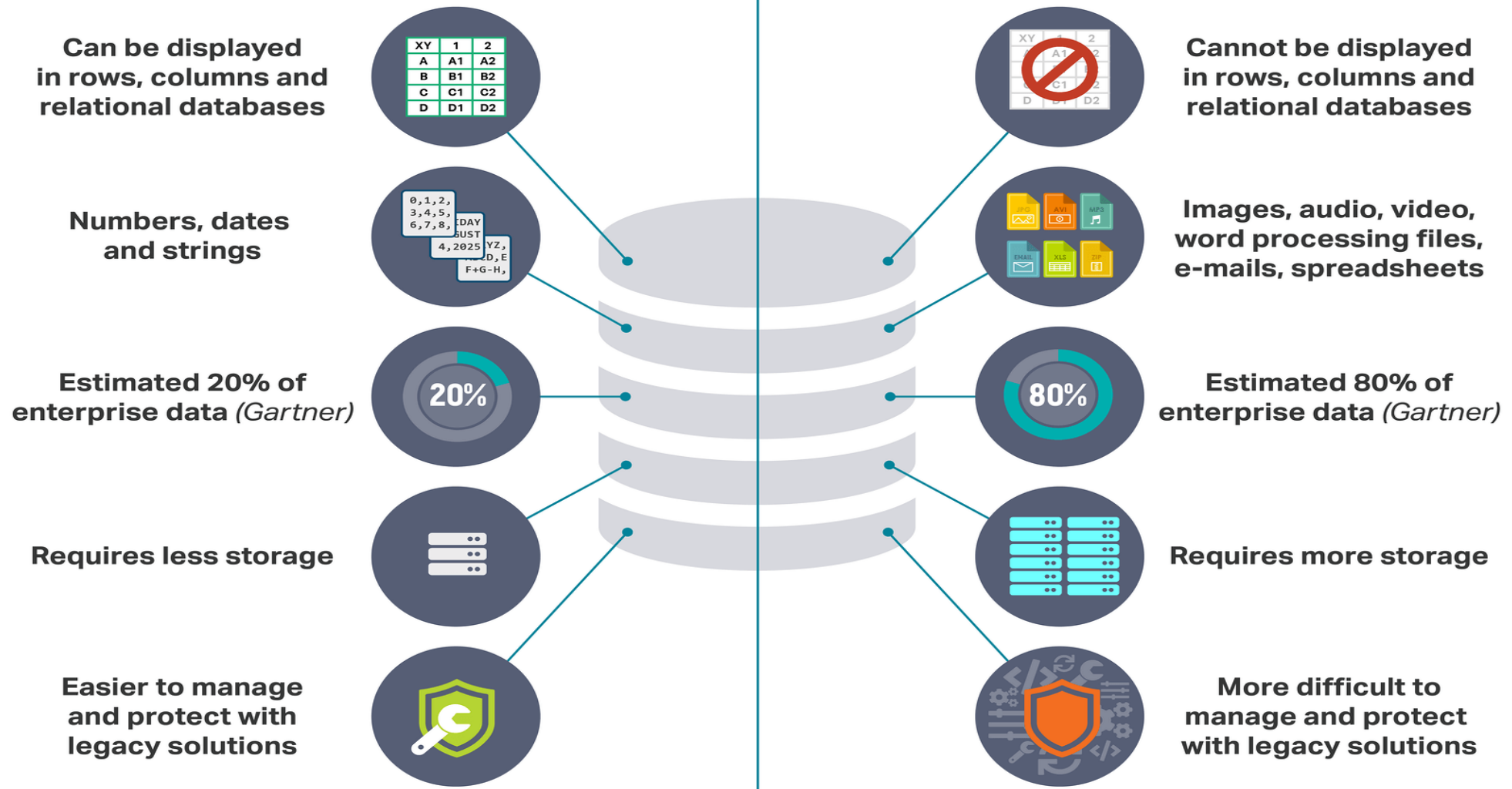
1. SQL databases – to store and handle structured information which is in tabular form
2. NoSQL databases – Not only SQL databases are used to store any type of information i.e. structured, semi structured and/or unstructured.



Structured Data

vs

Unstructured Data



IDE – Integrated Development Environment

IDE is a software application that provides comprehensive facilities to computer programmers for software development in an organized way. Normally consists of at least a source code editor, options to build executables, debugger and certain tools to make the development process.

We can have IDE's which works for only specific languages whereas others are generic ones that can work for multiple languages.

Contact Us

Visit us on: <http://www.analytixlabs.in/>

For more information, please contact us: <http://www.analytixlabs.co.in/contact-us/>

Or email: info@analytixlabs.co.in

Call us we would love to speak with you: (+91) 95555-25907