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BSIT 3B

1. Differentiate Flowchart & Algorithm

: A algorithm is a process or set of rules to be followed in calculations or other problem-solving operation while the flowchart is a graphical representation of an algorithm

2. Discuss the brief history of flowchart.

: In the 1920s, flowcharts used to document business processes. Frank and Lillian Gilbreth, industrial engineers, introduced the "Flow Process Chart" to the American Society of Mechanical Engineers in 1921. (ASME). Early in the 1930s, industrial engineer Allan H. Flowcharts describe various shapes and (flow) elements for representing workflows. The use of the various shapes may have seemed arbitrary to those unfamiliar with the subject at first glance, but all icons represent very specific components of a process. While detailed flow charts, such as a program flowchart, require many symbols, simple business processes can be described with a small number of shapes. Flowchart software, such as BIC Process Design, has a huge selection of icons and allows you to create process flowcharts quickly and easily. Unlike applications such as Microsoft Word, Excel, or PowerPoint, where the representation of process flows in a diagram must be manually configured, professional flowchart software solutions provide corresponding templates.

3. Flowchart Symbols & Meaning

: The oval, also recognized as the terminator, is used to represent the start and end of a process. Drag and drop one of these bad boys into to the Gliffy flowchart tool, and you've got the start of a flowchart. Remember to use the same symbol to suggest that your flowchart is complete.

: Once you've begun flowcharting, the rectangle is your go-to symbol. It represents any step in the process you're diagramming and is the flowchart diagram's workhorse. Rectangles can be used to represent process steps such as basic tasks or actions in your process.

: The arrow is used to guide the viewer along their flowcharting path. And while there are many different types of arrow tips to choose from, we recommend sticking with one or two for your entire flowchart. This keeps your diagram looking clean, but also allows you to emphasize certain steps in your process.

: The diamond symbolizes that a decision is required to move forward. This could be a binary, this-or-that choice or a more complex decision with multiple choices. Make sure that you capture each possible choice within your diagram.

4. Create an Algorithm and Flowchart to find the Area of the Square.

SIDE

SIDE Area = side x side

Step1:start

Step2:input

Step3:calculate

Area = side \* side

Step4:print area

Step5:stop