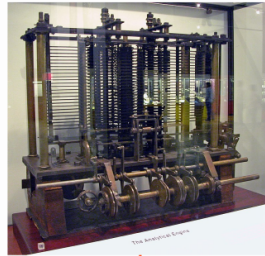
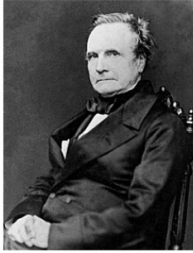


Basics of Programming

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• 2nd January

🎙️ History - From where the story started ?



Analytical
Engine



Punch Cards

Input

Output



Punch Cards

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 Why we need programming?

- To make apps, to create games, streaming platforms, website
- Automation of repeated activity / cost cutting!
- Fast and accurate calculations and analysis.
- Stores enormous data.
- Communication/ Internet
- Predictions

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 Career of a programmer, Myth vs Reality

Myth: You have to be good at maths formulas for coding

Reality: You have to be good at poetry, lyrics and literature to write codes

Myth: Language "x" is a better programming language than language "y"

Reality: Each & every programming language have some speciality. (That's why they were launched!)

Myth: You have to be a Computer Science Student to learn programming!

Reality: Even a MBA professional encounters and loves learning programming at some point in life!

Myth: You have to learn and memorise scary algorithms with scary names. No other way!

Reality: If you understood it ones, you will never forget in your lifetime.

Myth: Everyone learns programming quick and fast in short time.

Reality: Take yor time! Relax, Learn, Enjoy..

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 Career of a programmer, Myth vs Reality

Myth: Best programming language will fetch you more salary!

Reality: There is no so called "best programming language" !

Myth: Mastering one programming language will make you more confident.

Reality: Try making and eating only "roti" in the kitchen. / LOL . You may be asked to code in 3-4 languages parallelly.

Myth: I need to sit at computer all the time.

Reality: Sitting at computer is just 30% of your total time if you really know how to code.

Myth: In IT Industry, coding is everything and you will start coding from day 1.

Reality: Coding is just 60% of total tasks that you will generally do on a day. Learn and love doing it.

Myth: First learn all syntax and loops and OOPs and algorithms and data structure and then code.

Reality: You will end up nowhere doing so! Learn one thing at a time, apply, finish and proceed.

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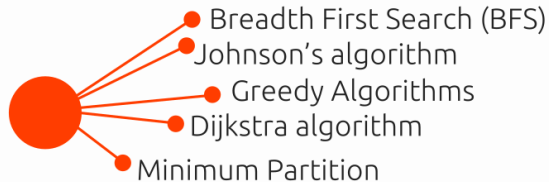
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🎤 Scary coding algorithm, Myth vs Reality

- Just Inventor's name
- Their approach of solving a problem
- If Mohan Babu solves & creates an algorithm, it would be "**Mohan Babu's Algorithm**"
- We will target 5 most simple algorithms this month

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 Applications in Today's World
From Industrial Perspective

- Predictions based on current & past data
- Optimise industrial production
- Get a business online ex: Food home delivery, eCommerce
- Maintain and store all details on computer
- Implementing Government's plans

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 Future of programming

- IoT & 5G
- Writing codes and running whole IT project on cloud
- Chip and processor manufacturing
- Automation of Codes, **Writing codes that generates code**
- Coding Augmented Reality, Virtual Reality
- Coding Personal assistant, Voice Assistant
- Coding Video Streaming Platforms

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🎤 Top programmers and how they started.



- Metallurgical engineering at IIT Kharagpur in 1993
- Scholarship to study materials science and semiconductor physics from Stanford University, USA.
- MBA from Wharton in 2002
- Launching of Google Chrome, in 2008
- CEO of Google on August 10, 2015

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 Top programmers and how they started.

Reference links:

https://www.codechef.com/ratings/all?filterBy=Country%3DIndia&order=asc&sortBy=global_rank

<https://codeforces.com/ratings/country/India>

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