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☆? Programing

=> A set of Instructions for computer
to perform specific task and solve
problems.

s) Programming impacts your world in
countless ways.

(i) From the websites you visit.

(ii) The app you use.

(iii) to games you play and AI assistants.
you interact with

☆? steps in Programing.
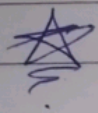
(i) Problem Definition

(ii) Algorithm Design.

(iii) Coding

(iv) compilation / interpretation

(v) Testing

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History of C++

⇒) C++ programming language was developed in 1979 by Bjarne Stroustrup at bell laboratories of AT&T (American Telephone & Telegraph) lacated in U.S.A.

⇒) Bjarne Stroustrup is known as the founder of C++ language.

⇒) It was develop for adding a feature of OOP (object Oriented programming) in c language.

=> C++ programing is "relative" called a superset of C, it means any vaild C program is also a valid C++ program.

☆ Importance of C++

=) C++ is powerfull and versatile lang. with a crucial role in various industries.

=) Its performance versatility, and establised community make it valuable skill for programmers seeking to tackle complex projects & push the boundaries of software development.

(i) Performance & Efficiency.

(ii) versatility & General-purpose Nature

(iii) object - Oriented Programming (OOP) support

(iv) large & Active Community.

(v.) legacy codebase & compatibilty

(vi) Low-level lang (System hardware accesibilty.)

★? **Translator**

=) Translator which can translate C++ and any other programing language into Binary language.

★? **Types of Translatone**

(i) compiler = Conuert whole program into binary
(ii) Interpreter = Conuert line by line into binary

=) C++ is compiler based Programing language

=) Compiler	Interpreter
(i) conuert whole programing into binary	(i) conuert line-by line into binary language
(ii) faster than Interpreter.	(ii) slower than compiler
(iii) for example, C & c++	(iii) Dott, java, Python

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History of C++	Importance of C++
(i) founded in 1979	Performance & Efficiency
(ii) founded by Bjarne Straustrup	versality & general purpose language
(iii) First mane was "C with classes"	object oriented programing