Programming Language

Duhat is a prognamming Language?

- -> Jebabe khabar kavar Jonno Ammy Abbu he de bolte hoi tik senokom we must instruct our compoten to pention some task for us.
- -> Mone . formally, a programming Language is a way to communicate with a computer. It is a formal language which consists of sets of String that produce various kinds of Machine output.

Egl C, C+t, Java, python, R, Go etc.

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the same of the same of the

1 1 (in the

gett 1 2 min at #include Liostneam> using namespace std; 1/ main function who plant were 11 where the execution of program begins int main () into Machine made (Binary). Mprint hello world Cout LL "Hello world" neturn 0; croputuro) (., 64.0) output! Hello world

> This code in att instructs out computers to print "Hello world" on our screen.

> Every language must be conitten following some rules called syntam of that language.

-> A computer essentially only understands
binary codes of o and A compiler

Process the Statement of a programming

Imguage into Machine code (Binary).

Source code -> Compiler Binary Machine (CH)

computer (exe)

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CS CamScanner

First program in ett

As discussed earlier: indazs | Source Code intb25 Machine/Binary interatb Language. compiler on the bailenner. Conversion IDE (Integnated Development Environment)! An Environment that helps you write, roun and even debug (in some cases) code in a programming language, Eg! vs code, code studio, Eclipse, Net Beans etc.

main function i.e. the anti-

in med within int ream () tenestion.

#include (iostneam)
int main() {

std!! cout

first program in ett. (Hello world)

Down program will find int main () & and start executing }

from there.

(2) int main () (3) These brackets show the scope of the (7)

main function i.e. the code which belongs to lis defined within int main () function.

- 1) In cett we use cout to print something Eg! cout ce "Hello world"; a This cout is already defined in a file (header file) @ which must be included before using cout =># include / file name > is a preprocessor directive which runs before the program is compiled and includes the file to be used later in the sour codes: I side. Afile called rostneamy has cout defined in it # include Ciostneam> . He Britaliani as gragas Hint! i/o means input/output.
- @ Ma Namespaces:
 Using namespace Std;
- (b) using cout!

 we use 'LL" after 'cout' to Lisplay something to

Standard output (your screen) within std namespace #include Liostream?
Using namespace Std; Ami Naymu int main () Some cout 2200sto Appi Naymul, copiety tours period the program is ENTER, ent end! is like of bollow. new line escape sequence charzacters used intime various languages including att. Companies abulant the Cout Lz " Hello worzld " ZZZ endhi, anson of itati Brief namestice still Marin of proof 21410 11 17, 000 311

Hinelude Ciostneam 7 using namespace std; int main () { cout L' "Ami Naymul" Le endl; tring-partial oatput! Ami Naymul ed to terminate statements. 8) end (3); 15 used Data type! Different types tot data to be stoned in memory. Eg - integer, float, character, double etc. Eg - int! stones integens like - 5,0,8 etc. char! single character like - 'a'; 'till givit'et float! Floating point values like! 2.014, 1.0000,
ent sunce at 1.1. types of data types use different amounts memory. Amount of memory use also depends