

Programming language :- \rightarrow

\Rightarrow Instruction or Commands to perform a specific task.

✓ Algorithms :- \rightarrow

A step by step process to solve a problem.

↳ B o c -

= Syntax :- \Rightarrow The rules or structure of programming language.

RAHSUT \rightarrow TUSHAR T
S
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Variable :- \rightarrow Container that store data

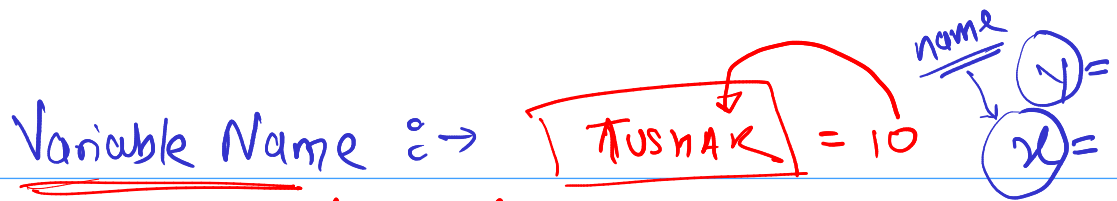
├ Algebraic Variable \downarrow
└ $x + 5 = 10$
 $x = 10 - 5$
 $\boxed{x = 5}$

\rightarrow Random Variable

① Discrete (whole) :- 1, 2, 3, 4, ... ∞

② Continuous :- 1, 1.2, 1.4, 499, 4.999,
5.9

Variable Name \Rightarrow



Name \Rightarrow pmmodi = \Rightarrow The name where we store the data.

Data Types \Rightarrow

$(x=5) \rightarrow$ Integer (whole no)

$(0.5) \rightarrow$ Float

always in
Quotation

"Tushar" \rightarrow String

'Tushar' \rightarrow

"11" \rightarrow string

"0.5" \rightarrow string

True / false \Rightarrow Boolean

$3+4j$, $9+2i$ \Rightarrow Complex

None \Rightarrow None data type.

Operators \Rightarrow All symbols that we use for Calculation

$+$ \rightarrow add

$**$ \rightarrow

$-$ \rightarrow sub

$//$ \rightarrow

$*$ \rightarrow multi

$\%$ \rightarrow

$/$ \rightarrow divide

Conditional Statement \rightarrow Decision Making.

IF, ELSE, ELIF
~~or~~ ~~etc~~

Loops \rightarrow Repetating Tasks

\rightarrow FOR \rightarrow WHILE

FUNCTION \rightarrow Reusable block of Code.

Compiler \rightarrow Code translated to Machine Language
(01010101)

Imp = Interpreted language \rightarrow

Code is executed line by line.

What is python \rightarrow

python is a high-level programming language, Interpreted language, general purpose language.

It is widely used for web-development, Data Analyst, Data Science, Automation, Artificial-Intelligence & many more.

Key Features : → ① Easy to Read & Write.

② Open Source

③ Portable (work on windows, mac, linux, ios)

④ Interpreted (Line by line execute & no need to compile)

⑤ Support OOP (Object-Oriented programming)

⑥ Extensive Standard Libraries.

⑦ Dynamically Type :→ no need to define data type.

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IDE ⇒ Integrated Development Environment

↳ It is a software that provides tools to write, test & debug code.

↳ IDLE (come with python)

↳ PyCharm

↳ VScode

↳ Jupyter Notebook

→ Spyder.

- Anaconda =

Online

- Google Colab

RAM/ROM