5. True learnings to remember 1600 1600 1600 1600 1600 1600 1 Python is a high level, interpreted, object orderted, digramscally typed programming language that uses indentation for coole gnoture (Gusolo Man Rossum) de la la formation de la formation many low level details, allowing to focus on the logic of the Program. of the Peogram. or Interpreted language: Python code la graupedied lane by line, of making is easine to write and test coole. 3. Object Oriented: Python Supports dojust ociented programmeng (opp Concepts like Classes, objects, inhertance and polymorphism. 4. Intended: Gruing Space or table at the beginning of the line of code 5. Dynamic typing: Python is dynamically typed, which means you don't need to declare the data type of a variable before using it.

Terrorres Simple Syntam: Cary to Jean and write with a focus on readability 2. Open Source: Face to use, dietrobute and modify with a targe Community Contributing with its growth. . file; 1215. ft. 1 3. Libraries: large Collection of libraries and frame work for Marious faster Such as data analysis, web development and room. 4. hus memory: while python's memory can vary, often pot 5 platform Endependent: Peurs on défiguent operating Système equi pendons; Macocity Liber etc. Shorten etc. e. Garning: pygame and panda 30; miles (hoi) mystall.

3. Machine Learning: Scrict - Lean, Tensor flow (hou) had a control of the control of 4. Cybresecuity: med formes pinetra ton History In Main was listy and assessment and Sunsity websearch of so wet (100 st) andoost 161 (161): Oderd Com

Ilke Person flow, keeps and pytoch. 5. Deep learning: Transmorks · Communité beloise soide, beliefestes level dété à à rodife -> A Comment is a line of code that is ignored by the interpreter Comments au used to emplain Code; help others and westly to, understand what the Cocle tolors. was alst or have plots of Two types: many but sold to a contract servered bus diff.

(i) Single line Comment. of present, the life bush and person from

the This is a Single line Comment. rangerd. out to The following the policy of show could be springer periodicity. (Muttin Comment. Now lot has also of where to possess Coming This Bogor multiline Common to hard southers between the - puint (" Comminte au Behould bej the Protupieter). will symming es: puile a Program to calculate Student essetts. Industries is " Key words for elever of o sque what set water of her had These monds are essented morals that have special meanings and an used to define the System and structure of the language. They cannot be used as Vallable names, fonetion nomes of odentifier. 1. 16, else, elif. Along its after patrididas placamas incomes touge conection of liberais and fune work february 3. det, class. Ino foungalous due, eleptions atolo us due aprof. 4 Proport police puer no promer s'rocky since quamer sul 5. Aug, energt, finally. mostassique leans rop auson present si 6. Pener, faller promentango langfilo no most labarator ampliato -> Keyneouele deferre - the Syrdan Cea Structure of Python, Coole. · Dalatypes In Desgramming, datatype is the type of data based on its formal, she and set of values it can hold. Energy Willows 1. Integers (901): whole number like 1,2,3 etc. 2. float (float): Decimal number like 3.14, -0.8 3. Strings (str) de Perd Breit hello brinkello of how where wife 4. Bookan (Bool) : The or false values where has been been to 5. 18st (18st): Ordered Courton of Stons [1,2,3].

- Spusod data-type in python. 1. Str (string): A Sequence of character Rice "hello" or holes" 2. 1761: An ordered correction of stime, like [1, 2, 3] or [a". b. C"] 3. tuple: An ordered somulable Concerton of Plane, like [1, 2, 3] or [a", b", "c"]. ((181)) application (186) 4. Set: An or unordered countron of unfique flows. Mer (1:0:3) or {"a", "b", "E"} colo you name Marcha 5. del Colectionary): An unoxoluce Courton of key value Takes, THE STATE SHIP Blu ("name": "jorso", "age": 303. age (clase "fol's * VARIABLES Januable is a name goven to a Mahu. (which we store one reduces) eg: \$20 weed to specifier operations on vendobles of &; go (x' le a Moulable Storing the Value 10

brange sald softeness suches oraging Judage lange of the

Print (x) # Output: 10 They must start with a letter or underscore (-).

The variable type is not nucled to declare. (1) the mathe openions: Rules to declare VanSables: Mallol Vailabilier déclaiation. nois mortant déclais déclais de la proposition de 2 P = 4 P = 4 a= 2 A= 4 num F 20 num 1 = 31 num 22 90 num 3 = 12.1 8told = 123 ptx addished
-810-name = "largha" ptx automitable Suprinchop - Invalled voulable declaration. tuatplication Thehally we can't use numbers. Speral Characters. apaul from-we can't use any other @ nom \$ = 8. p. olox ./0 * Datatype enample. name-string age-intripho-shr address-str email-fol-shr height lought - floget Dors - Str. work - Str salay - float.

eduction depote to application &: Print ("Hello good morning:") on (straig) in agunce of a name : 8tr (Papul ("conter , your name!") age = End (Popul ("enter your age!") (put (name, type (name)) . ["5", "4", "8] mont (age, type(age)) for Hello Bopel morning. Day to not was business on at 1950. (3.6.8) ente your name: Marsha. enturyone age; 93. Vaesha (Blass 'Str') Sue (name : " ane! : " age! : 30}. age (class int's Mountle is a norm gluen to a Maker we sto grotange of - Operatore au useel to purjoins operations on variables and values.

3) It is a special symbole perform cutain operation blio operands eg: a = 3 (toughtel me y bos is) suffissed sees me voldent.

= 89 operator a, & operand.

(-) envisober o solles a differ back beam pad: -) Pypes of Operators valed of below took is eget il delicer it. (1) Arithmatic operators: : indoduse entre of while Anthematic operators au med with numeric Malues to sperform. Common mathematical Operations. destator. Name some of engineer 18 = 1000 06 7000 18 = 1000 06 700 x+4 "eyelen " = men -n/3. Addition Substraction Amadel naulable declaration Mukplication stally in earl we runhes 21 con Dension with from section for the (Diverble no)

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(Vi) Mensbeuship operators: 2 10, not in } · 09 /-1, l'am : membre of your fam : Pale. Sam notrember of your fam: Minie. you are not a membre of your fam: Palge. i) - Bluste info information * CONDITIONAL STATEMENT BOX : Protomps 1 Almematic A Conditional Statment 18 used to enecete allfrent blocks of code based on certain Conditions.

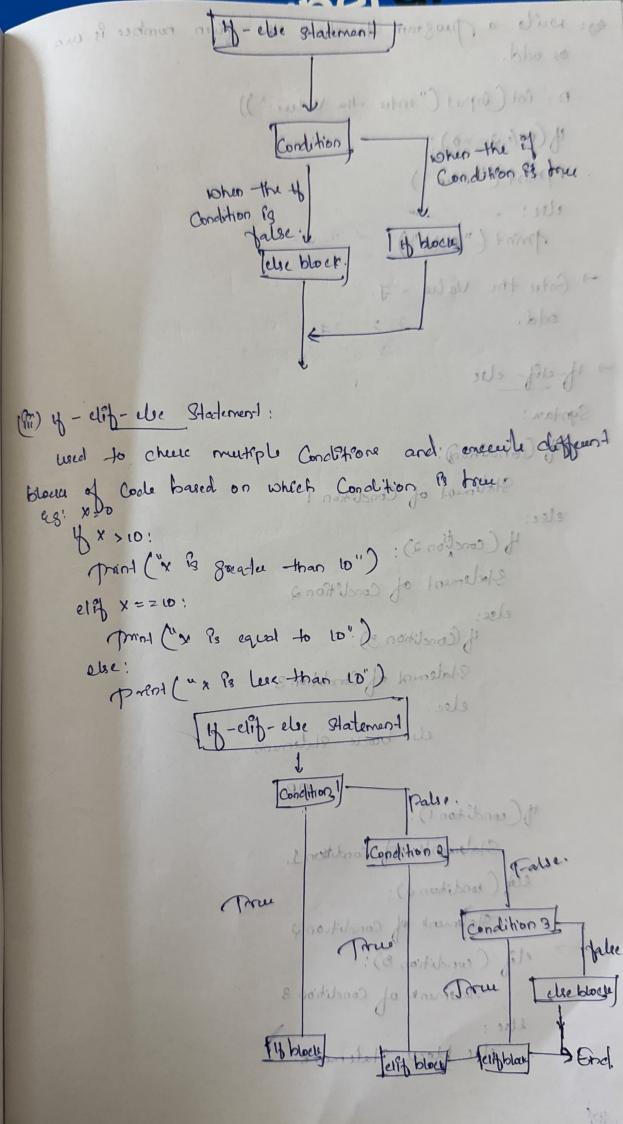
It allow use to make decision in Code, and execute diff blocks of Code accordingly.

Pypes

8-4 : motanger no Policy no Policy no Chi (8) 16 Statement : Used to rencerte à brocke of code if a Condition is frue. (b) topleat operators: and - sately on the Condologianx Mint (" x 13 greater, than 151) D road yastatural o bas Palse Palse [1. Pas! Condition True

| Condition | True
| Statement | 1500 eg. a = 4 (P) of else Statement: (01) d box orca) tour Ored to enceute one block of code of a Condition & true and another block of the false. I stortenge philaile es: X = to Point (" x B greater than 5) · else:

(" > is lesthan or equal to 5")



write a program to cheek the griven number is even or oold. n = Port (Sopret (" entre the Walue:")) 16 (7.1/ 2/2 20) ! . asitutos Trist (" even ") find note (self partition) elec: print ("odd")! - Forter the Malue = 7. -> H-eig- else of the else Statement Syntan: wed to cheek mutiple Conditions and: Gostabinds) Hillians Statement of Condeten forther no hours de man & (conction 2): ("al and shoot of x") trans (o) = = x file of Condition of ion of laups of will harmy. S-laterund of Condition 3 el 1 x ") former else block statements. 1) (condition i)! Statements of Condition 1 ely (undition a): - 8 not; Statement of Condition ? ela (condition 3): (Statement of Conclision 3 polyple block, Statement : 111