Syllabos

UNIT-I Computational Thinking and Problem Solving

* Furdamentals of Computing - Identification of Computational Problem

- Algorithms, building blacks of algorithms

(Statements, State, control flow, function)
- Notation (Pseudo code, flow chart,

Programming language), algorithmic problem Solving, simple strategies for developing algorithms (iteration, recursion).

Illustrative problem: finding minimum in a list, insert a card in a list of sorted cards, guess an Integer mumber in

a range, Jowers of Hanoi.

(omputer is an electronic device, which accepts data (input) process it and produce the desired output (information).

Data -> Raw Information, Unprocessed data.

3. Mormation -> Processed data (that is output).

Computer system = Hardware + Software

* Assembly long - mmemorie coops

* Assembly miny - Immemoric codes

(Special meaning Codes)

i.			
	Creneration	Peroid	Devices
	First	1940-1956	Vacuum Jubes CENIAC, EDVAC,
		(Machins language)	UNIVAC-I)
	Second Operating	1956 - 1964	Inansistor (Solid State deven)
	System) (Batch Processing)	(Machine long + Assembly long)	(punched cards (I)
`	Iliva	1964-1971	IC (Stategrated circuits)
	Andrew Company		SIBM 360 sories,
			Honeywell 6000 series
	Jourth	1971-1980 Wighlevel lang)	MP (Microprocessor) [IBM & Angile]
	Fifth	1980 (High level lang)	Ultra VLSI (Parallel processing)
	Siseth	(Natural long processing)	farallel & Distributed
	PYTHON		
(*	write a python program to add any two		
	a = 10 $b = 20$ $c = a + b$	print ("Sum =	", C)

Exchange Two Values

$$a = 10$$
 $b = 20$
 $b = 10$
 $a =$

2) a, b = b, a

print ("b", b)