Sage William Valida Sage William Valida
Fundamental of computer pare 1, 1
THE CALLES THAT THE CALLES THE THE
O What is FC?
Ans. The basic concepts of computer including
pold they nork how to use them
Called Compater Fundamental
Some importants points
in Identifying typical computer and digital device components.
The war will be the state of the
(II) (/I/NONSHII/(III)) TVID HII/I/HII/ (Nt. /I/V)
digital ampanents.
digital Components.
Understanding online sefter and responsibility
41/07/
# Introduction to Number system
naming or representing number we know
that number is a mathematical value  that helps to Count or measure  objects and it tielps in performing  various mathematical calculation.
objects and it telps in performing
various mathematical calculation.
Addit Little Signature
Addit La Signature Salar Signature Salar Signature
AnyScanner All Control
Add Kultural Varina Salai Kultur Signature

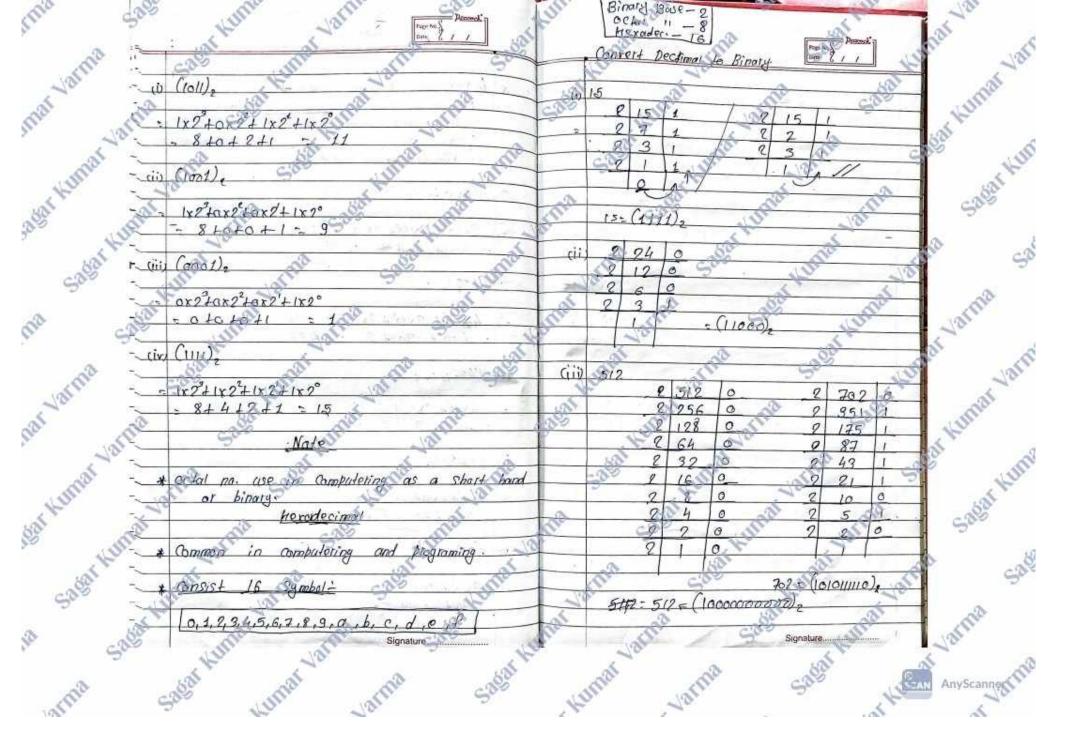




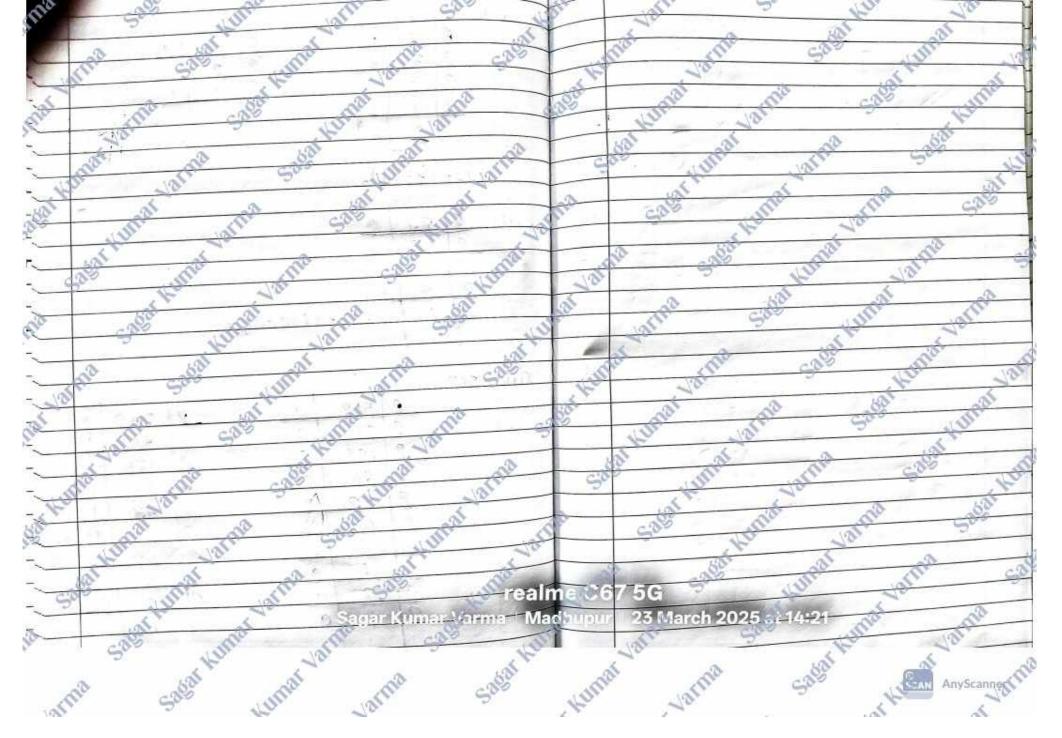
Filling 200 Milling Malling Comer.	Fedres (3(342)
Spes of Number System:	10 10
Decimal no. System (0 to 9) (0,11,2,8,4,5,5,2,4)	Hexadecimal number system > To the hexadecimal number system numbers are written are
Binary no. System (0,1)	represented with base 16. In hexadecimal
Octal number system (8) (0,1,2,3,4,36,7	3ystem the numbers are represented wing alphabet from [a to f.]
- Hoxadecimal Donal System Land	3ystem the numbers are represented wing alphabet from [a to f.]  O- Solve :- (i) (2.3.3) = ?
* Decimal number system (base 10)	Sot, 2x102+3x1043x100 (December - 0 to 9 if > 10 21.23
Designat promper suction has a base of	9 20 + 30 + 3 233
o because it uses to digit from	=) 4×10 <sup>2</sup> + 3×10 <sup>4</sup> +2×10°
the position succession to the left of decimal prints represent units, tens,	- 400 + 30 + 2 - 432
hundred, thousand and so on Abis	r'::: (3,00) - 0
Every position so a particular power of base.	- 4X(0+3X(0+6X(0
Binary number gote System Chare 2 ?0,1?)	
- The Thise 2 number System is also	(iv) (5432)6 50 110 110 50 110 110 110 110 110 110 1
Libera and 2 bingry digit exist.	5500 + 400 + 30 + 2 = 5432
ex- and 1. The usual base to is read	(v) (99) <sub>10</sub>
- * Octal number System > In the octal number  - System [base 8] and it uses from    o'do 7] to represent number octal number are	9x10"+9x10"
Commonly use in computer agreements:	Signature
Age Man	ed do da dal ed da
STITIO SAGAI WITHOUT WATTHOUT SAGA	NUTTE VALUE CONTRACTOR ANY SCANNER OF THE PARTY ANY SCANNER OF THE PARTY ANY SCANNER OF THE PARTY AND A



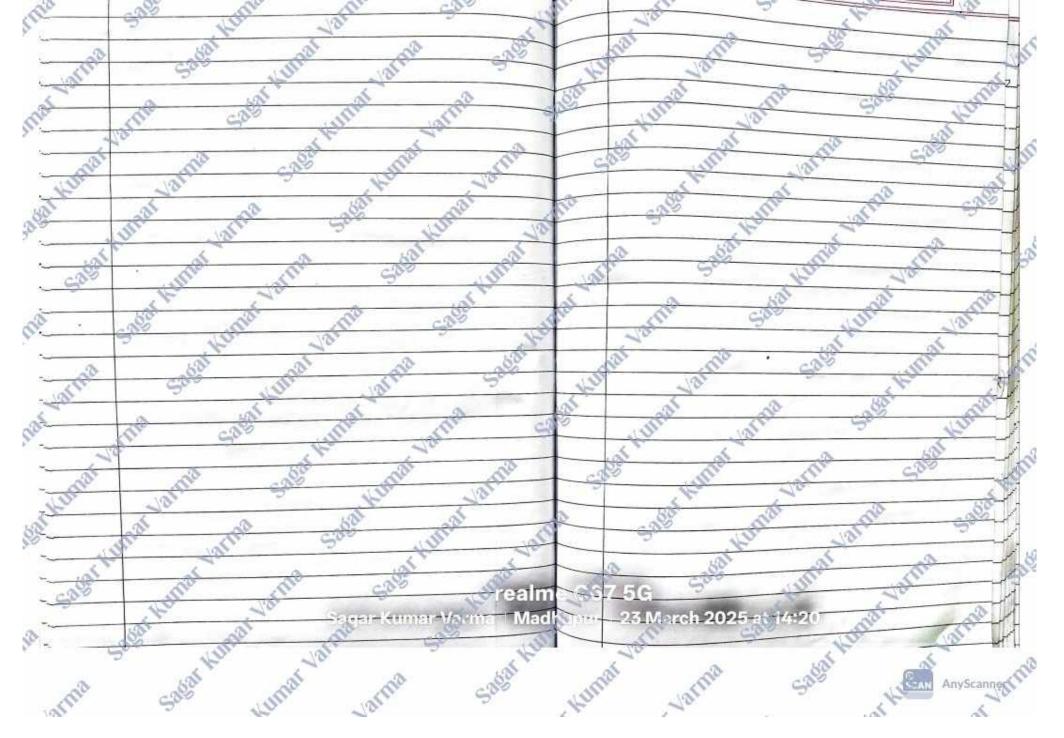




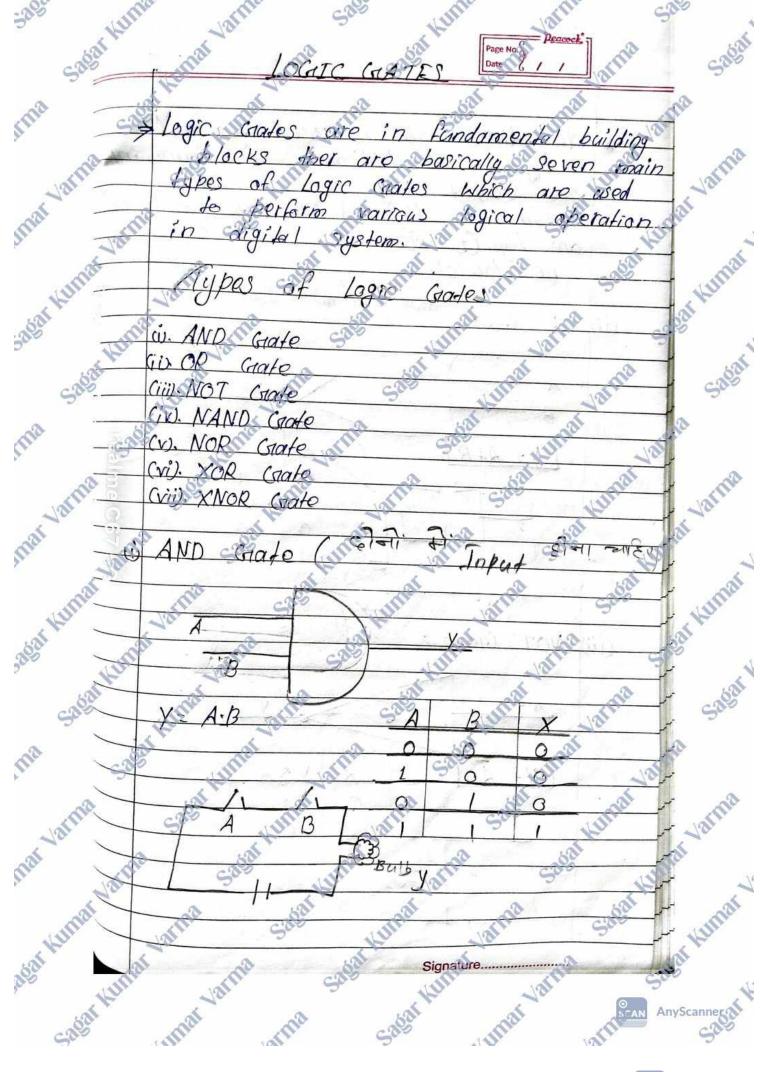
Ma



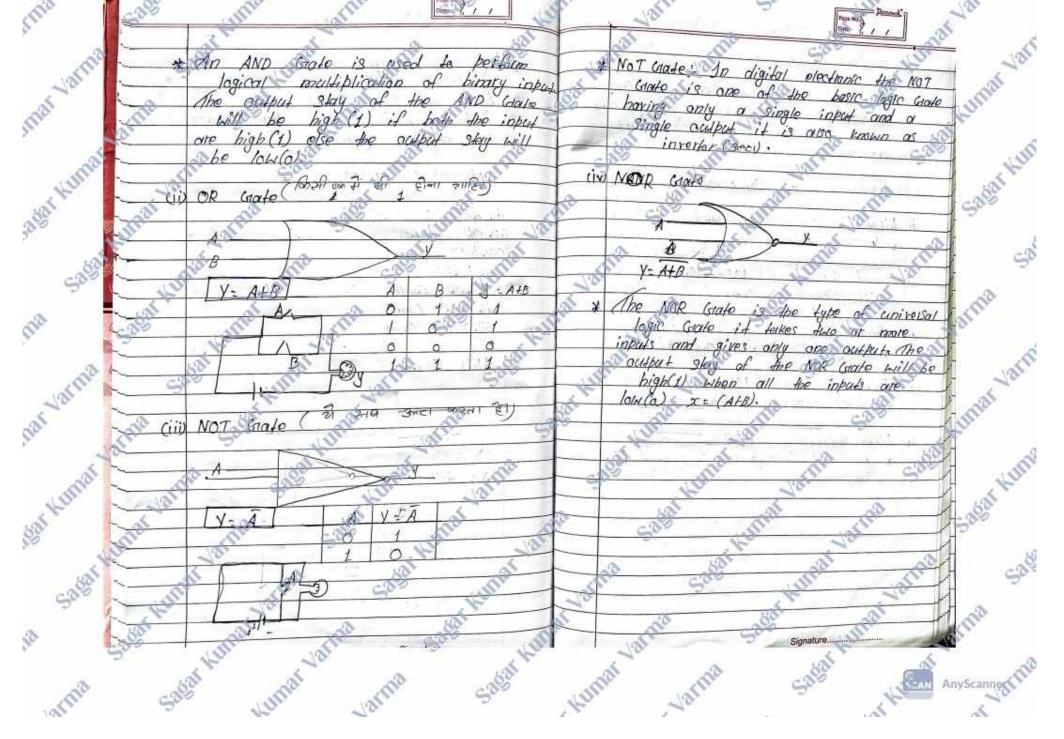


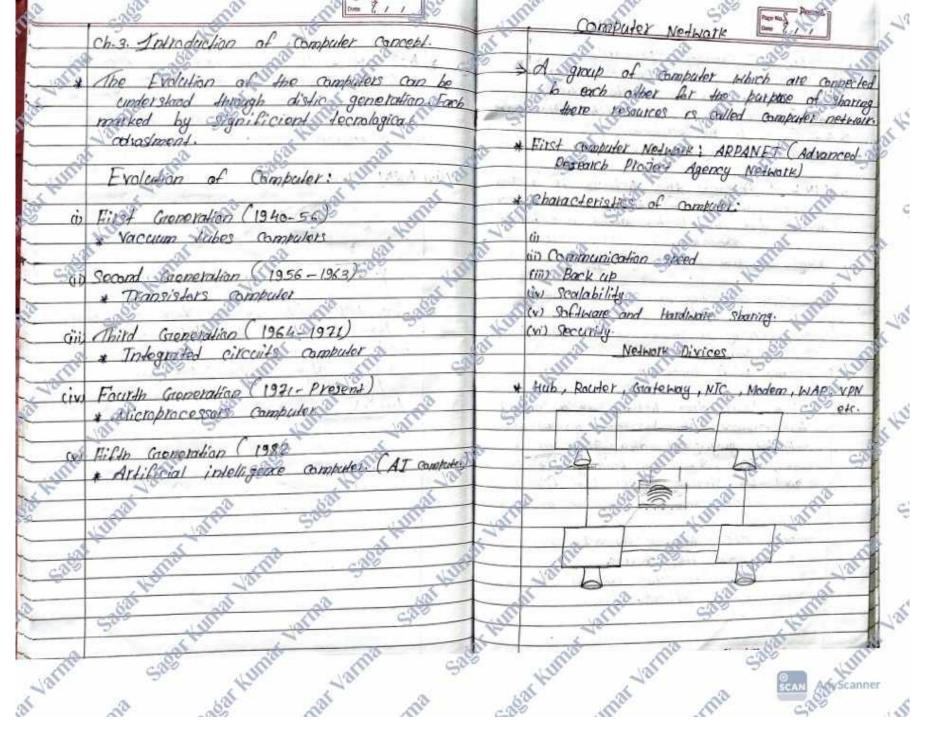






TITA





Sag	KHITA	Valin	Page No.	A ALIE	Varia	-	Page No. 5 Page 1	1 1
A	Type of a	mpuley Net	wark:	NO.	B. MAN L. Of	Halmh-1-1	- 1 1 mm	Hill
	200	13			of comparedo	Metropolitan of Network fort	TO Nelhork is	a type
- 3	PAN Coverage	irea: (IP to	(o meters)	80	large com	218 . 71 'S langer	Spuns a city	or a
10/0/2	MAN ( ) CUP to	En little mode	tiometers, Apier.	50 m		TABLE TALL	14/1/10 -01 11	Lancack Company
	WAN C. Spans			201	The state of the s	(4) MANAGE	market to be but an in the second	A Total State of the
00	NAUTO CO	de la comme	nes of Canane	nes))	CHECK OF	MOUR DOMAIN AN	1 1 D- 1-0	dala
to to	PAN : A Perso	pal Area N	setwork is a	Smarl)	Ext	a resource shari	zg.	
	network design	ned by be	Sanal use Cont	perking		1.100	Tille	
dille	devices that o	ire located	closed and ind	(videa)	centralized	network	Changed thing	ba l
1	The	Network (	usually covers	6	DIO 111111111111111111111111111111111111	(am) (1505 9b)	and dames	TA
5	range of Rew	meters ty	pically to mele	12.		TICH VERHOR LA	MINISTER CO.	noedra-
	701	10%	11.01	-	(iii) Cable T.	V Network With	n a city.	
- 100	Examples'- su Conne			Egi .	A. 6	400	4.00	
- 600	Bkie	too the	es are Company (v)	4	WAN OF W	de Area Nelwork 13	a large Chinpur	er
	cii) cising	a Smartwak	ch connected to	28	NOTINGIK HA	of connorte dos	inos and and	0.3
00-		phone.		5	OTONS OUNT	LANS & MANS) O	chiss varst gang	raphic ?
	Giù Wist	Connecting	The Branch		Tol	os cities, man	ties of even co	nlinents !
-20	LAN: A Jocal	Aron Noth	atk 18 0 netu	JOYK SO	Examples!	he largest examp	b of thinks	
THE	that copports	Combaler's	and divices W	ithin	GD Clouds & o	ccess - Accessing	dala Shired or	2 5 7
10	a limited goo	grabhical area	a such as a		temole	Servers.	David State	80
M	hamo accord	In head at	pulding 1 1+ 1	5	- 200	ALL!		5
	designed Gr S	haring Source	os like files, p	rinters	-	7	A Committee of the	
Las	and Internet	Cannec Frans	amound malte	1/2	80	- Cad	The same	-
Tille	devices	200	1510.	10/00	- 65"	- File	10,	-
1	Examples: in office	e Network a	hone ling Compar	(er s	-2	NO	205	100
50 -	printers and	Files Serve	1890		CONTRACTOR OF THE PARTY OF THE	500	10	
-	O School Nedwork	Connecting	Computers law o		V to 1 may 16	2	1	- 4
- UN	administrativ	e offices:	80	a.	The	CAGAI	The	
1 200	THE .	NA.	5	TON .	181	-	- the same	J.
	printers and ou Sahaal Nedwork administradiy	e offices:		II HOW MAIN	TRAI Varia	20	agai Hearth	2
(a)	- apa	dr.	No Cab		Time	IIII C	San I	CAN Any
\$	2 Call	Jan.	2	1/2	- 1	2.	1 /2	

Milita

ma

10





Data processing involves the collection  Organization transforantion and analyze of  Given Analyze data in real time.  Advantages! in thigh accuracy reliability.  Organization transforantion and analyze of  Given Analyze data in real time.  Alvantages! in Initial setup costs are high oreguines  In processing the processing of the processing transformed and processing thems.  If years and the processing the processed transformed to the processed transformed to the processing transformed t	
are the primary method of data processing. Disadventure Til	3.6
are the primary method of data processing. Disadvalance Til	i
are the primary method of data processing. Disadvalance Til	
1. Hanual data processing. Data is processed  1. Hanual data processing. Data is processed  1. Hanual data processing. Data is processed	41.5
1. Hanual data processing Data is processed which business intelligence lank like tableau	The same
	0
Charlet 10 march processing date 19	
Advantage): in Low Ost (no need by advance) Specific lime	9
Advantages: in low cost (no need for advances)  Specific time.  Specific time.  Specific time.  Specific time.  Specific time.  Schedule processing.	
* Disadvantages: cv Time- consuming and slow.	
Gir Analyzing data using pen of papper.  4 Advantage in Efficient for large-scale tepetidive busines  2 Mechanical Data Processing: Mechanical divices  Gir Saves processing lines and televisors	
2. Mechanical Date Processing: Mechanical divices Giil Javes processing time and resources.	12
are use to processes data.  Disadvantages! in Carnot process data:	,
VV 01.043 1/2 4Ventra 10.004	
• Advantages! · Ruster than manual processing.  • Disadvantages! · Limited Oxpacity requites processed monthly in batches.	
	w
as sonn as it is gonelated at entered into	
The control of the state of the	
processed wing plantonic devices like company (ii) immediate teedback and result.	110
and advances software as 1000 , Through the leading making.	4
to the value of data affectable of the line songleties	
Signature	
the way of a sail at	J.
ATTHE SAGAT WITHER VALUE SAGE WITHER SAGE AND	uéL.
191 2 Ta	





The cap	Page Na.	18th 18th
2	Date ( / /	Page No.
20 -	· Disaudan loges: - Requires robust systems and	# Multi-programming 1 11.11
THAT VAITING THAT	an can be confly infrastructure	# Multi-programming! Multi-programming refers to the Capability of a Campuler system to execute multiple programs, Multiple broken
5	e.g. L ATM transaction conline licket booking,	multiple programs. William And overcuse
This artis	Of the State motiver Hoding.	coefficiently utilization the CPUs time. It is a
100	as to to	
Kunai	# Single user programming: Single-user programming	statu and ensure better issue ulitazuting
Truly -	refers to a computer seen a group where a	* key Readures of Multi Diogrammings
101	Single plagrammar is responsable for the design	
May The	development and execusion of a data processing	. Mulliple programs and the CPU switches between
and and	system or program. This solup is Lypically used in Small scale projects, personal Jask or When	
C300	the scape of the data processing works land is	• Fificient resource. • Increased through book.
7	limited and does no require Collaboration with others	e.g.s. one program makes a Sorting data set.
20 - 20	di dil did did	Programme by her
di.	· key Conture of Single wer programming:	on a different data sets.
-26	: 70 x 1 1 2 2 11 The walk of 1 2 10 10	The trice the trice of the
of the .	in Independent controll The programmer has full control over the development process.	Tale Asi
70.	CONTO: COST THE CONTOUR PORT OF THE CONTOUR PO	II THE THE THE
Clar. Chic	(i) Simplified Communication: Since those is not	THE STATE OF THE S
- a	team involbe there is no need code extensive	A 20 80 A
- M	Codimation	Call The Sale William
Kumai	Cill Small soule Based sailed Got kisk	The state of the s
of he all	like data anlyze scripts reduse over head!	Cally Cally
Br. III	- Advantages L	Hill Agi
The same of	3780000	20 88 28 TO TO
-080	TIGHT THIS CASE THAT	The Sas Will St.
Side	Disamontogos 10	at the same
in care	THAT THE THE PARTY OF THE PARTY	affile saget while
in Sagar	William Maria	Trail Valities Catal Lutter Any Scanner Little
	Sagar Kurnar Varina Cara Sagar Kur	AnyScanner Title
arma	Sales affix Sales	Kills Age and and an and an
100		



200	Date V. , , , , , , , , , , , , , , , , , ,	F:
850	Computer Security Tube 0 -	
	> Computer security refers to the practice of . Type of computer security	.5
0		1.30
Varia		- Ol
No.	Land the state of	The same
Tha	integrity of date and resources, privanty malicious using fire walls encryption and antivirus software.	
5.		2
20	The state of the s	THE STATE OF THE S
Wille	Key features of computer security:  backups and access contrate	of Kull
agar kuma	DZ Appliate St. 11.5 20 1	So
RO.	1. Confidentiality: in Fosurely that information is from vulnerability and mulicious or blails	
200	1. Confidentiality: in Fosurely that information is from vulnerability and malicious exploits.	
P.	4 Culis countly to Sal	00
83	(ii) Prevents unauthorized access to sensitive data.  (ii) Prevents unauthorized access to sensitive data.  (iii) Prevents unauthorized access to sensitive data.  (iv) Prevents unauthorized access to sensitive data.	2
300	(ii) Provents unauthorized access to sensitive data. respond to cyber crimes and online threads.	00
	Deferity: in a said the said t	N. Carrie
Tier	District a data Prom complexized notification or	
-	in Ensure accuracy and reliability to information distraction. Sources of Ahmads Computer security	
Qu.	10 Livelle accuracy day reasonable a mission of the second	TO THE
(III)	3. Availability: Security threads can be	10
10, -	in Ensuring the systems and accessible data to cartegories based on their orgin as intent.	31
21	in Ensuring the systems and accessible data to cartegories based on their orgin as intent.	
Mr.	cii) Prevents distublions cause by attacks like DDas. * Types of Threads.	
_	(Distributed Denial of Service)	The same
Mal-	Lack to the transfer of the tr	Fills
CHI.	i) verifying the identity of user or device in tackers and cyber criminal: Individuals or groups	21
al The	accessing the system afterpling to brooch systems or financial gain,	9
800	accessing the system afterpling to breach systems or financial gain,	
4	city elecaundahility tracking and regarding user tip state sponsored whis: Government or organisation	. 18
101	cii) Accountability tracking and regarding user cii) State Sponsored whis: Government of organisation activities to identify and address any conducting Cyber espionage attacks for political at	C. D. C
CAS -	security breaches.	
× ×		D
NO.	Signature Signature	
5	Signature,	-
	at a sat at at the	THO
Da.	ANYSCAN ANYSCAN	anner
TOTAL	2 May Jan . He Ap	4





	2 4		0.5
Page Ma S	="	CHANGE.	1
Date 9		-10	Ш

HIRO

ma

10

arma

Dar Varina

ATTRAT VOLTA



į.	500	· IIII	Alli.	Poznat a	111	Man Man
	2	alki	of Vo	Page Mo V		Annal Anna Anna
60	=	Campile	ha . D. Mie /Dia	Companied templing	-	5 than 2 1
		to \$100	information.	· · · · · · · · · · · · · · · · · · ·		5. Human Source: !- iv Social Engineering! Manipulation of individual to
	200	civi Tarario	is Orgination - Gar	outs aining to	C.31	TEMPO SPOSENO INGLIGADO.
7.5	<u> </u>	drsrubd C	reation intrastruct	leure or Spread fear.	1	(ii) Phising affacks! Decepted emails or messages
BI	~	W Shird P	arty Vandors: Vando	is with insecure		tucking users into sharing informations.
	- 10	Systems o	r poor practices	an expue organision	6	G. Supply Chain's use of unauthorized or malicious  Products.
	Car	8. Toternal 1	hreads + 200	TIGH	N.	Moduck.
10	The same of the sa	in Desamo	Hed embloyee + Con	ment or Granal	10.0	
SOL		orginalia.	s with mulicon	intent to harm the	Unid	1- Introduction to operating system and computer
	13	(ii) Nealigen	Frablouce: Mist	ekes or untensional		Samuel Michigan Committee
	-00	orchan's	by employees such Sharing senselive	as clicking phising	4	Intenduction to operating system:
C	200	al al	7,0		0	What is an operating system?
8		ciri). Contrac	6131 Partners or	andrackis who miss		
		-use their	access to system	of ann	7/19	An operating system is a system software that and
	9	9. Environmen	dal sources:		100	the user. It manages all bridgers and software
	Ch.	(i) Natotal	n. Cre musica	like outhquakes, physical damage to	P	users to operate the computer absenting
1 de		it infrast	ruchare	all ranks		The state of the s
3	-	Car Factore	re fallacious 2 Mil	Book anion of		Process Hangement's Manages the operation of
	10	autdated	hard wate woulding	to securely vulner	i	Process Management's Manages the organism of
	00	TO	C.850	a Vai lability		multiple praceses in the CPU.
1 hr	-	4. Tochnalogia	vulnot availability	Bugs or Flows in	ai).	Memory Management? Allacales and manifers
2	- 4	Software	that can be an	plasent by all ackers	1	System memory he afterior to we.
	al los	con tinkhoho	d Cartem & Outdoo	lad systems lacking	1	File Management: Handels the starge occess and
0	8	critical	Beculifies updates s	Signature	10.	o I gamization of Rile. Signature
		of the	of Vio	a sat i		नवीं नवीं नविवां ज्या
	<b>C</b> 3	6,	HIPO STIP	2900		Anyscanner Anyscanner
		24	70		1 de	
						(o)





110	William State	Page No.	a all	Kris. Algi
S	100	3	See de	Provided 1
Valina	o Dovice Management + Control	Ciphut and all	Oi Secondary mounty + Includes had	ddrivas con
Age.	devices like keyboard, mou	10 and bringer	USB drives for long ferm dale	Shorman.
0	tion and	A10 19 11 11 11 11 11 11 11 11 11 11 11 11		
THE CHE O	o User Toder fore ! Allows wer	s to introct with	3. Input devices: Devices like keybo	ard mouse scanner
	the system via(zurn) a g	taphical user interfoce.	dala into the computer.	ers to enter
Tidl	Cio Caso	Co. The second of the second	Title the computer.	2
agar Kumar	Cambular an inti	50	4. Output devices! Devices like mani-	Ar was to D. I
Half all	Computer organization	n:	Special Holen display or him	uce the round
A STATE OF THE PARTY OF THE PAR	Computer organisation refers	A And Informal	1 D7 D70(P1)/P0h	15/4/4
1	Structure and Purctioning of	a Compaler Sustan	5. Bus system!	A CO
200	Structure and functioning of 14 explains best different	budware, components	in Sala bust Transles dala between	Companents.
20	batk bigether to process do	b efficiently.	Citis Control have Manages and dis	in memory
-20	W. 50	180	TSCINCI ODD SCIETOR.	
Un Saga	Main companents of compute	r organisation!	of input output sustem! Unnages of	mounicuhan
~ 4	Conf Central Processing Unit	DA - Loon KO	between input autput devices	and he computer
Ma	all and the second	San Go	7 Nock & Timira Quala : 2 -1-12	Systems
Mall.	in ALV (Ati homotic logic Unis		T. Nock & Timing Typtem: Candials &	be speed and
21 28	mathematical Calculations and	d logical operation.	within the computer.	11 of all obelonion
Ur. Oly	1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The May	A CONTRACTOR OF THE PARTY OF TH
100	ciis CU (control Unit) - Manages	and coldinates	50	0 000
Tids	ACHVINES OF THE COMPONENT	in all	2000	and the same
1/11	ciil) Dogistors + Tomparatily St	ero data and	in the last	. 20
rai rai	ciit) Dogistors + Temporatily St instructions G1 quick acce	r. cai	CAN ITTE	718 C.O.
No. THEIR	ZI 50	Fill Ast	June He	da
11/2	Memory! memory: Includes	Bar (Tomber 1500)	100 again	8
Gaga	Shrage by quick access) and	DOM C DOLLARDON	St. St. Elli	
2 Fra	Sterage for booking.	Learning (ST Call	A 80	The sale
in the		gnature	Signature	ALL STATES
5	Killy Val	in the	40	No No
On.	sal sal	a agai	TIME THE CAN	AnvScar
ATTION S	AND HITTER STO	Sar	Killy Mal	1/2
100	500	14	2	100





000	Min	- Chi	[2300 (-1)		1111	OFF.	2	Page No.	7.50
2	Overview of 6	umband cu	oils of h	O Cartill		Tr. 1. S.	0	( N / /	a
	80	Or City	- A	CHIOPYNEY.	-	· Fetches decedes	and execu	tes instructions	10
	A computer system	a character of	A governi	C.mo /S	-	10 1011 4h0 1-101	y of docker	hotimon della	
	units that wor				-	THE PERMIT HONG!	units.	1:1 88	
200	execute instruction	ns of air-	In these	aute and	3	Ked L2 tere	A.	COS	11
12.	Smooth Communic	alan Lalin	ny #neso i	unit onsure	5	• Small highspood	azemoru loca	Han incides the a	00.5
	success Communic	anan between	en palation	Component	-	· Tempotarily Store	data and	instruction during	500
	enabling the Con	uputer so p	Ertenn Van	aus forth.	_	Charles A.V.		The Control of the Co	- 60
1	Tubert worth		3	1/3/		ext Accumulator, in	Structions	rounder brane	0
7.	Input unit:		4	~ =	- 20				1
200	• The input unit	allows costs	to entere	dollar and	24	Memory wit: The	memory cu	11 01 00 11	9
300	instructions in	n fine Compa	ulers II a	nvers		instructions and n	23 cul 28 . Tot 0	nds as the a-t-1	
	human readable	input Into				Types of Memo	191	Horkspace	10
	All C			Et malo		CO.		The state of the s	
- 21	a Functional unit.	- deceps de		1000	1.	Primary Memory Cular	n memary)	4	-11
1	A	0		cat.	17.00	e cart voidelle mem	ru rund C	alter the	- 6
20	<ul> <li>Convert data into</li> </ul>	binaty Para	2.		di.	ROM: Non-volatile	memory the	4 Shrel Come	121
30	. Sends the Onven					The state of the s	1979		3
- 17	100		processing.		2.	Secondary Memory	Permanent	dock of man	199
	east keyboard , no	ouse , sconne	Jaystic u	1200	, ci	Marddrives USE	B. DBD et	San	
-C-jk-	mic to bhan	, Touchson	en ek.		-		4	- W	
05	200	15	A -1	1.1	-3	Cache Memory:	Dia	0.00	1.6
2.	CPU (Central Proce	essing Unit 1	7 6.	4	3000	· Highspeed Memory	between the	CPU and PAM.	200
	· CPU is the brai	in of compo	Her JA ex	ecates		Shires frequently a	ccess data	Ge faster processing	3
	instructions and	process o	date la ploc	duce	-	80		The Case	9
	meaningful result			mnon to -	-	Con William	7/3		
19	1. ALU (Arithmetic	Logic unit	);-	10			1	20	1
de	· PerGims Arithm	elic operation	s Caddilion	Substraction,	00	- 000	The	(III	1150
	malti plication	, division).	THE PERSON NAMED IN	- 19		2	10	1.0	
	· Executes lagical	operations Co	mpresian o	and (ar not)	_			al a	0
	21 20		80	00.	-	The Car		U. The	
1	9. CU (contral Unit	1: 5	E buig	Th.		(A)	· Fr	470	
1	• Direct & Contdina	and the second second second	akes of the	computer.	4	.0	CO.	Bo	1
201	All -	Sig	nature		die	- Chi	Sig	nature	
0	THE STATE OF THE S	131	2	100		1/9,			4
	1	1	0.	531		ATTINAT VALIDA		Aga.	
	aga and	6	10	C. 300		THE STATE	C	SA	AnySca
	1.100								

Mille

ma

10

ATTI





Tillia Sala	Juliu 10	Page no.	Bill	. Stored Program	Pani Na Pomer	Of Age
Varma	O. Different between k	PAM 8 ROM P	Ser.	The stored from core	4.0	- Killin
al land	ci TH is skinds GI	ROM	- data	Von Neumann in	the 19ther Tt 2 later to	Tohn July
3	Random Access memory	cis It is stands for Re		Controlers memory and	accessed when poodel	in St
agar kumar	nature. Dala is last	(i) 14 is mn-volcitile in mature. Data is re	kins N	Generalis regulating has	Dr.	- Califor
2	Short down.	even the computer s		* key features of the		-73-
Galga"	il) It is a skull term memory.	aii) The is a long from	3 3	Program and data in a care stared in some	menny 11 enery to mad	of program
ma catal	iv) A temparary momory their stores data	tion of permanent moins	79	<ul> <li>Sequential and Execuse and execute instruction</li> </ul>	lian. The CRI Astones, o s sequentially from mean	lecodes
Varma	outrently in 1880	System dala	\$5.	Flexible & Peprogramma	Change them without	skered -
gar Var	- Cirial A	all company of the	- 4555	the physical structure  Planty Representation:	of the Computer.	JITTER
THE WALL	10 - St. 12	Till Ville		represented in Binary	(Os and 1s) making proce affected	esiag S
OF KUITIAI	Cla Cara	dat day		k Impact of the Stared	and the same	Hers. Salgar
St. Halfag.	Caluli 20	at un	18)	Allows for the creation	of modern operating . blication	System
Salga.	A STATE	Cub. Manue		Inabled programming	onguages and Computer Computer	based g
in Salar	A MITTER VALUE	Signature	Kee lin	Variation	Signature	of arm.
ATTIO	adail a turnar	arma Sagai	-	JITTAN VALITIA	Saga	AnyScanne
11/6	-			,	100	





LABOR MITT	Party .	
4	Section 1	10.00
Date (	1	1

HIRO

Ma

10

Day Varina

Mar Varina



Ilia	2905	KIIII	Value	Project Nacional Control of Contr	Kall	ASIL	2	Part to S	OF Nat
of the	#	Posic Programm	ng - Ptogramm	ing is the proce	20-02	e Variables shro	valuo in mem	attes.	STILL VALL
nat Va	- IPA	and execute.	These instruction	Comparier con and	lerstand 50	Data types: D variable co	an hold	2.0	Kumai
THAT	1.	C of Java Sc	ript.	language like þy. ura Concebls	lison,	neight:	25 # In	leger	Salah Willi
Sal Kills		(a) Algorithm:	An Algoridam i	s a step by step	5 Mid	opera.	VI.	(Arith	Salgar
wat !	din.	· Mallo two	ive a problem.  rumber as in	ped -	120	· Arithmetic ope · Comparision op · Ogical operator	tator +	,*, /, % pho < , ≥ , ≤	cai
Sap	- N	o Display to		80	O'CL	ex: X= 10	- Asal F	Tin No	THA
id.	<u> </u>	hwed an h	programming i urbese	languages are useo	i l	Sam= 7+4	(A) 1 (2)	Mai 2	Age of
Varina	J	Easier k	Write and one	A		· Use to control	Statement (f)	1	Tal Val
ar V	ATTEN S	• low level land	nguage (Assembly	machine (ode) -	2 105	• Chaditional State  • T!- age = la  if age	toment :	200	Kun.
HIRAT		( Synbx 8 S	1	nat artif		prin	y ("Pligible")	Uhr. C.	OF KUIN
ark	Milar		COS	ng code (ijko Gama in englisi	mmal	else:  Print(  Loops: fit i in	TOTAL COL	i = voriable	Sagar
Sagari		Pasic Program	the meaning of	50 - 20		Functions: A	1000	black of reworks	Saga
,	Sair	(a) Variables 8	data types!	anature	ANT THE	gr	int ("Helia")	gnature	arma
ma.	5	Seal Kills	ial Var	ia cata	The same	Hraf V.	ia s	gai . E	AnyScanner
arma	G	Till Till	731		1	1/0	11479	· of la	4





This case the party of the part	Page No. S. Page No. S. Date
* Whiling and running a simple program.	Object oriented programming.
A simple program to add two numbers	in Class: A blue print for objects.
Sum= outh	ciiv Methods: Function inside a class
# Dehagging and error handling	# Programming Languages
Frmi our occul while wriding colo there.	
in Syntax errors: Incorrect orde structure	- and systems programming languages can be
(in Logical errors: Codes runs had give wrong	classified based on their level of abstraction and purpose.
siii) Run dime errors: Fronts that occur while	1. # Types of briggramming languages
tunning Odivision by Ox	List level languages: These languages introct directly
# for i to range (10) ? i- variable )	but strafficult on learn
print ("Sagar")	in the native language of computers
Ultral Saga Luttia artic	est pifficult for numans to read and write.
gal the cape and	- Assembely language (Symbolic representation of machine code): (150) maemoris (Hilliam) (Shart symbolic code): Instead of laming
ALL TO THE TOP	(i) Requires and assembler to convert to machine and.
Cap Aller Cas	- Hove - a.b (move dole from b toa)
Signature	Signature
STITIO SAGATIAN LATTICAL VALUE SAGAT	AnySca
191	





Page No. S 2. Sound Generation Assembly language - 19500 - 1960s) 2 high level language: High level language are casial & white read and mountain. There require a compiler or ar interpreta to convert and into machine language. Uses mnemores (Symbolic representation) instead of binary · Procedural languages (Based on slep by step instructions Requires and assembles to convert it into machine object oriented language (OOP) Forster to understand than machine code has but still Java, Python, C++ hardware dependent Funds Fund Formal language (Formal on marthe matical Lunch ex-in Mrs. A. B ADD .. A.C (This move data from B to A user use pure function without changing date. and than Add C Third Grenovation (ligh-level languages + 1960s-present Scripting language used for automation and wet develope ex! Java Script, PHP . Uses english like synker, making programming assist Markup and quest languages Cure for dala representation and more portable. and data base quories.) · Requires a compiler and interpretes to convert ext HTML into machine carle. More abstract roducing direct hardware instruction. C. language Togramming ( leneration 4 Fourth Generation (very high-level languages +1970s-procent Programming languages have evalved over lime and classified into five generation each offering · Focuses on problem-salving rather than have to execute tests improvement in usuablify efficiently and authorition . Dogoties less coding making it faster and more protective. · Mastely domen - spotter languages (DSLs) First Generation (Abochine larguage > 1940 - 1950 · Copyists of binary code (or and 19) which is directely ox! (SOL) (2 factured overy languages) understand by the computer. SFLECT \* FROM STUDENT WHERE AGE >18 Fast and essicient but externally difficult to read Intulat languages 201 and write. No translator required since it is the computers native This represent a machine instruction but it is unreadable for humans. Signature. Kunnar Va

LIFTE

MITTA





All code worlder   Page No. 5   Down of 1	Pregr. Na. Dinnsell
5. Fifth Generalian (AT 8 VISUAL programming)	Guneral Runchines of Variables and Constant
Designing La Artificial Intelligence, Machine learning	In programming variables and constant are fundamental
. Uses logic based and visual programming instead	1. Variables: A variable is a named storage location in
on python (AI Libraries).	memory that hold's data and its value can be changed during program execution.
- * * * Functions * * * * *	* Characteristics of variables:
* 30gar () -> Function call	. Use to stored values.
The ess	· Value can be change at anytime.  • Hove a paine that follows naming rules.
des add (). add ()	* Types of variables!
priot (a+b) dix()	in local variables: Deline inside a function and accessorie
def sub C):	cio Global variables: Define autside all functions and
b= 5  print (a-b)  out put	accessable through out the bingtain.
def mul ():	(iii) Instance Variables , (iv)- Class Variables
b=5 $print(a*b)$ 50	2. Constant: A constant is a variable whose value tennins fixed through out the program and our not
def div (): 90	be change ones assigned.
GRE 5 5 11 C 10 10 10 10 10 10 10 10 10 10 10 10 10	with shed street that bould not change accidental
print (a76) Sagar Kumata Va	Helps improve and restantity and pleases accidental
त्व वर्धवा के त्वार्य त्वार्य त्वार्य त्वार्य त्वार्थ्य त्वार्य त्वार्य त्वार्य त्वार्य त्वार्य त्वार्य त्वार्थ्य त्वार्य	AnyScanner
ATTION SAGAN MATTION SAGAN	The Man of





Sag

