

## Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

AY: 2024-25

	Semester:		
Class:	SE Semester	DLCA	
Course Code:	C6C304 Course Name:		

Name of Student:	SHARVART ANIAND BHONDERAR
THE REST OF THE PARTY OF THE PA	O.C.
Assignment No.:	Convert on & nymber system to another and relize
Title of Assignment: Date of Submission:	06 08 24
Date of Correction:	06/08/24

## Evaluation

	Max. Marks	Marks Obtained
Performance Indicator	5	10
Demonstrated knowledge		
	3	2
Legibility Completeness and timely submission	2	2
Total	10	8

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Demonstrated Knowledge	5	3-4	1-2
Legibility	3	2	1
Completeness and Timely submission	2	1	0

Checked by

Ms. Rsh9gt9ga Gharat. Name of Faculty

Signature : (Fhanat : 618)24 Date

	ASSIGNMENT No. 1
02,2	(532.125)8
.0.1	Octol to Dectmal Conversion can be done as follows:
202	(532.125)e=(5xe2)+(3xe1)+(2xe)+(1xe1)+(2xe2)
1	= 320 + 24 + 2 + 0.125 + 0.03125 + 0.009 76
2	(832.125) g = (346.16601) 20
	Octob to Banary conversion can be done as follows:
	(532.125) = (101011010.0010101)2.
	3
	7 1
	$(1/8 \rightarrow (010)2$ . $(1/8 \rightarrow (001)2$
	He
	now that
	$(5)_{8}$ . $(5)_{8} = (10101010 \cdot 001010101)_{2}$ .

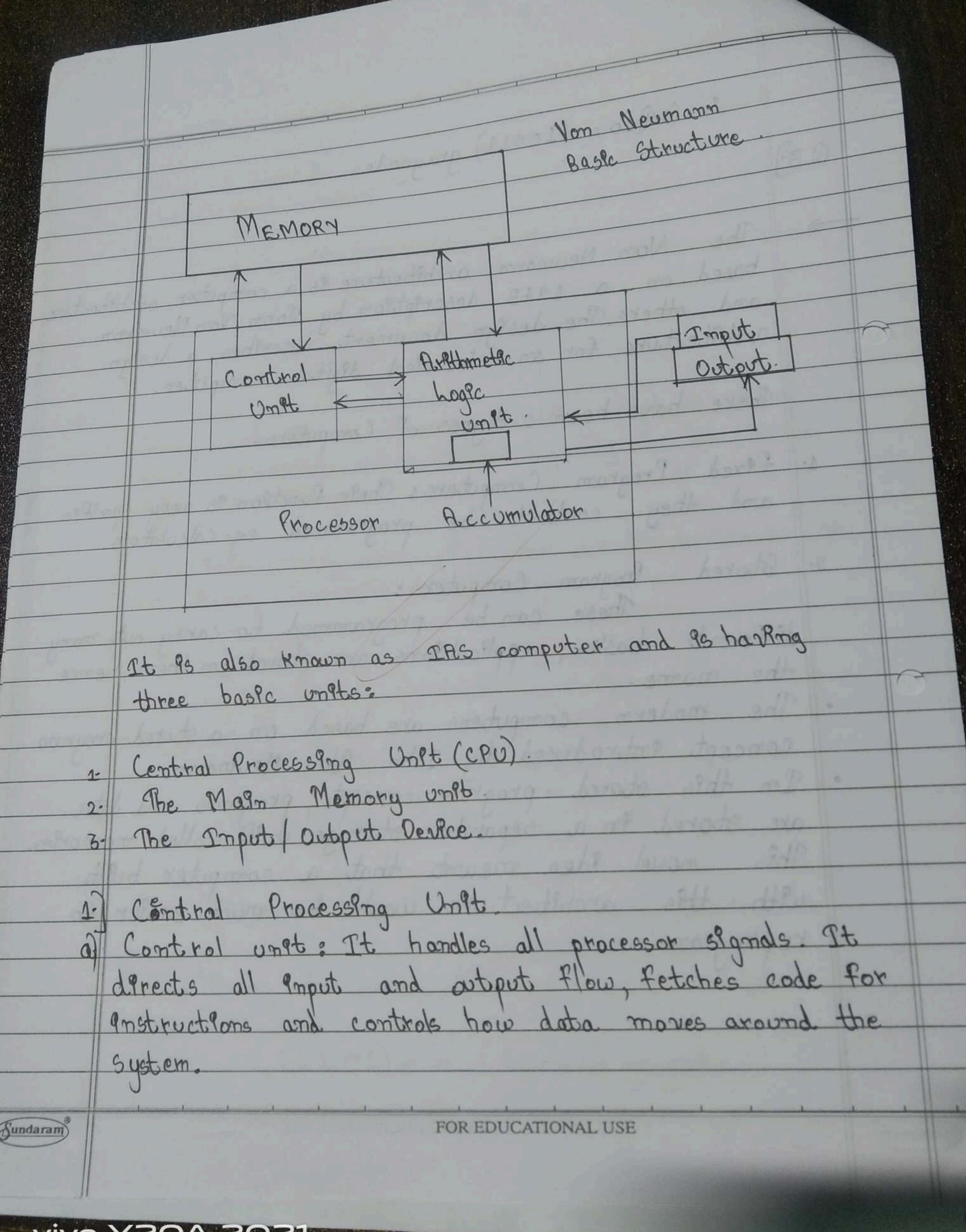
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	1 10 700 700 00 00 00 00 00 00 00 00 00 00
	1 to form
	Also 4 botts on a group are extracted to form
	hexadeclinal number
	(101 011010·0010101)2 =
- 12-1-1	(101 011010.001010101)2 -
	(532.125)8 = (15R. 2R8)10.
	(532.125)8 - (1516.2166)26
027	
>	Gray code 9s a blancy numberling system where
	two successive values differ by only one bit (binary
	Just respectively.
1	o find gray code of (29)20, we first convert et
1	
	2 2 2
	2 14 1 N= L5B.
	290
	2 3 \$1
	2 1 1
	1 1 MSB
0	
	$\frac{(29)_{10} = (11_{101})_2}{}$
Now	Hanny La
	, bloary to gray code,
	(11101)
3	$(11101)_2 = (10011)$ graycode.
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Oct 02, 2024, 19:31

03-)	° (29)10 = (10011) graycode.
	The Von Neumann architecture is a computer architecture based on a 1945 description by John Von Neumann and others. The design document describes a design whitecture for an electrical digital computer.
B	ere have been 2 types of Computers:
1. fe	xed Program Computers: Their function is very specifical they couldn't be programmed eg. calculators.
deffer	These can be programmed to carry out many rent tasks, applications are stored on them, hence mame.
	modern computers are based on a stored-program ept entroduced by John Von Neumann.
	coved en a serante at me programs and data
with	
reprog	this architecture would be much easier to
	The standard by the standard b
	Santana Maria andreas I de la compania del la compania de la compania de la compania del la compania de la compania del la compania d

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6) Anothmetic & hope unit (ALU): It is that part of the CPU that handles all the calculations the CPU needs. It performs hogical Operations, Bit shifting operations and Arithmetic Operations respectively 2. Magn Memory Unit: a) Accumulator: Stores the result of calculations made by ALU. 6) Program Counter (PC): Keeps track of the memory location of next gnotructions to be dealt with. The PC then passes this next address to Memory Address Register (MAR) respectsvely. of emory Address Regester (MAR): It stores memory locations of emstructions that need to be fetched from memory or stored anto memory. Memory Data Register (MDR): It stores Instructions fetched from memory or any data that 95 to be transferred to and stored in Memory. c) Current Instruction Register (CIR): It stores the most recently fetched enstructions while it is wasting to be coded 4 executed 3) Imput Output de vices: · Program or data 95 read 9nto man memory from the emput derice under the control of CPU emput enstruction. · Output derices are used to display the output or the antormothen from the computer. FOR EDUCATIONAL USE vivo Y20A 2021

Oct 02, 2024, 19:32