

Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

AY: 2024-25

Name of Student:	Aughite Daniel 1 A			
Roll No. ;	Asichita Deepak Gupta			
Assignment No.:	06.			
Title of Assignment:	A SECTION OF THE PARTY OF THE P			
Date of Submission:	compare serial/parallel processing & ISA, PCI,			
Date of Correction:				

Evaluation

Max. Marks	Marks Obtained
5	- Stanled
3	4
2	3
10	
	Max. Marks 5 3 2

Performance Indicator	Exceed Expectations (EE)	NA AN	
Completeness	5	Meet Expectations (ME)	Below Experies
Demonstrated	3.	3-4	Below Expectations (BE
Knowledge Legibility	3		1-2
Legibility		2	1
	2		
			0

Checked by

Name of Faculty

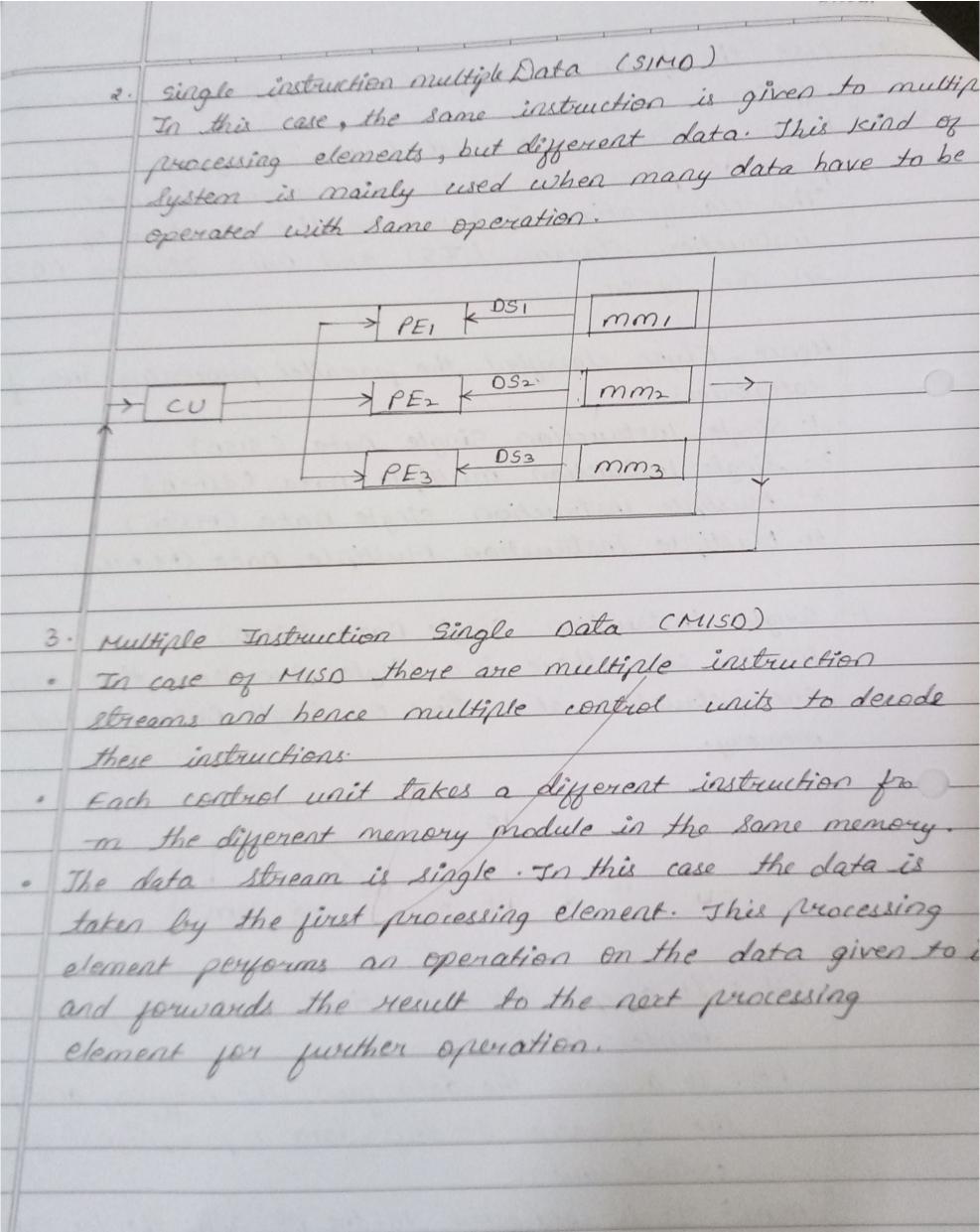
Signature

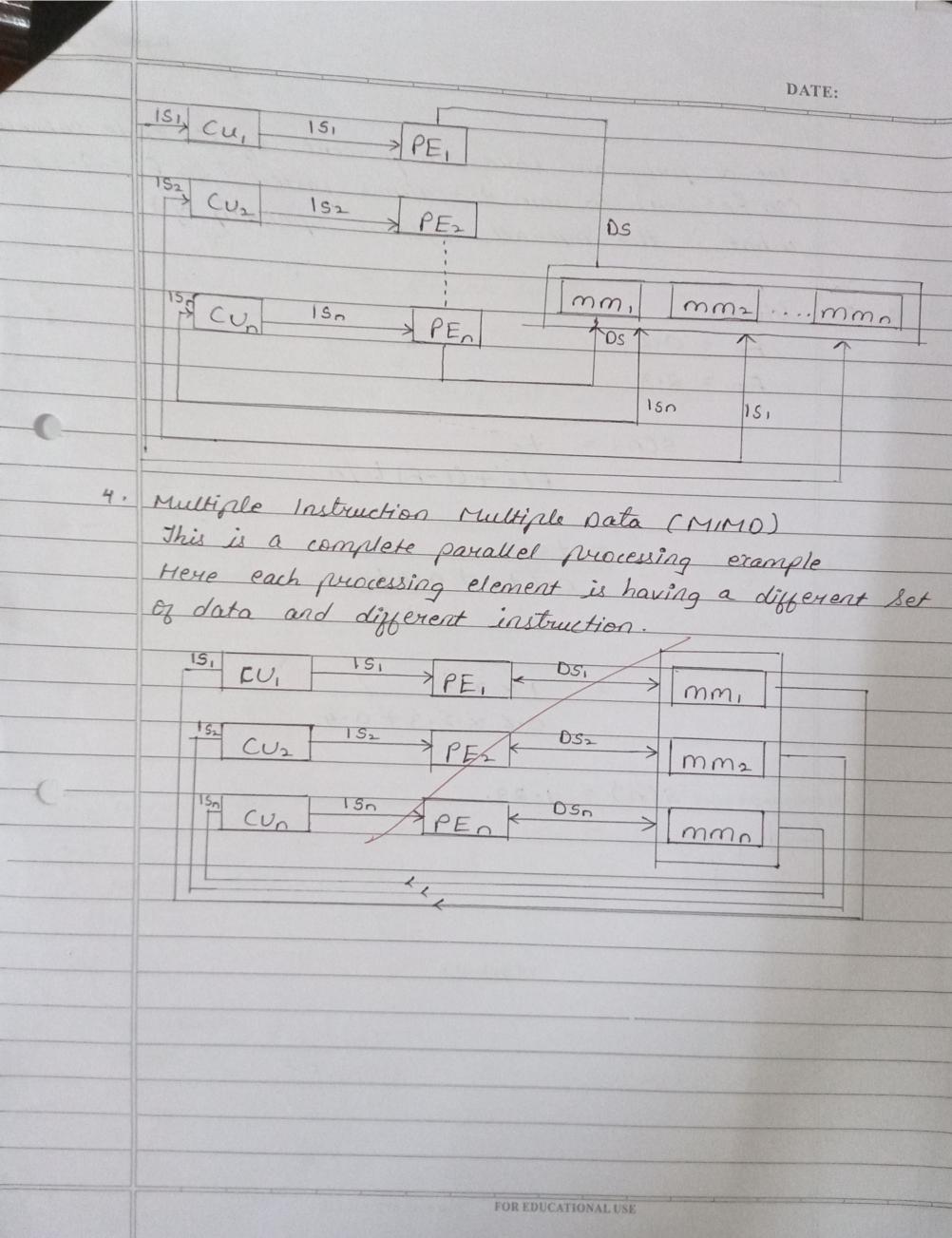
Date

: Bharat

Q1. List the flynn's classification of parallel processing Soln: Flynn introduced a method for classification of parallel processor. It is most commonly used This classification is based on the number of instruction Streams (IS) and Oata Streams (DS) in the system. Hence, Flynn classified the parallel processing into four 1. Single Instruction Single Data (SISD) 2. Single Instruction multiple Data (SIMO) 3. Multiple Instruction single Data (MISD) 4. Multiple Instruction Multiple Data (MIMD) 1. Single Instruction Single Data (SISO) In this case, there is a single processor that executes one instruction at a time on single Data Stored in the CU IS PE 95 mm Cu & It accepts the instructions from the processor and PE: It accesses the data from the memory and performs the operation on this data as per Signal given by mm: It is connected to the PE and the cu you the

data and the instruction Streams resp.





(92. Let a program have 40 percent of its code enhanced (so Fe = 0.4) to run 2.3 times juster (so F, = 2.3) what is the overall system speedups?

Sol?. Liven:

Fe = 0.4

 $F_1 = 2.3$

S(n) = ts fts + (1-F)ts/n

= ts 0.6 ts + 0.4 ts

2.3

 $= 1 \times 2.3$

0.6 × 2.3 + 0.4

S(n) = 1.29.