

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

For Practical Examination Only

Session: Nov-Dec 2021 Examination

Name of Examination: Practical exam Semester: 5th Date: 28/02/2022
Subject Code: C022521(022) Subject Name: Microprocessor & interface Lab
Name of Student: Kanha Agrawal
Roll No. of Student: 303302219050 Enroll No: BH3733
Name of the Institution:SSIPMT Institute Code: 033
Name of Experiment Allotted: To solve arithmetic equation $3AX + 5DX + BP$ and store
the result in CX register.



Signature of Student



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY

Bhilai, Durg, Chhattisgarh

Admit Card for Session Nov-Dec 2021



STUDENT DETAILS			
Registration No.	BH3733	Roll No.	302302219090
College Name	033 - SHRI SHANKARACHARIA INSTITUTE OF PROFESSIONAL MANAGEMENT & TECHNOLOGY		
Student's Name	KANHA AGRAWAL		
Gender	Male	Date of Birth	13-12-2000
Father's Name	SATYANARAYAN AGRAWAL	Current Semester	5 SEMESTER
Program	B.Tech Computer Science Engineering	Course	B.Tech

SUBJECT DETAILS							
Sl	Semester	Subject Type	Subject Code	Subject Name	Exam Session	Exam Type	To Appear
1	5 SEMESTER	Practical	CO00506(020)	Environmental Studies	Nov-Dec 2021	Regular	Y
2	5 SEMESTER	Theory	CO22511(022)	Microprocessors & Interfaces	Nov-Dec 2021	Regular	Y
3	5 SEMESTER	Theory	CO22512(022)	Computer Networks	Nov-Dec 2021	Regular	Y
4	5 SEMESTER	Theory	CO22513(022)	Formal Languages and Automata Theory	Nov-Dec 2021	Regular	Y
5	5 SEMESTER	Theory	CO22514(022)	Data Analytics with Python	Nov-Dec 2021	Regular	Y
6	5 SEMESTER	Practical	CO22521(022)	Microprocessors & Interfaces Laboratory	Nov-Dec 2021	Regular	Y
7	5 SEMESTER	Practical	CO22522(022)	Computer Networks Laboratory	Nov-Dec 2021	Regular	Y
8	5 SEMESTER	Practical	CO22523(022)	Data Analytics with Python Laboratory	Nov-Dec 2021	Regular	Y
9	5 SEMESTER	Practical	CO22524(022)	Project - I, Based on Summer Internship/Industrial Training	Nov-Dec 2021	Regular	Y
10	5 SEMESTER	Theory	CO22531(022)	Computer Graphics	Nov-Dec 2021	Regular	Y

Signature of the Candidate (while receiving)

Signature of the Principal

Signature of ODE

Experiment-1

Aim :- To solve arithmetic equation $3AX + 5DX + BP$ and store the result in CX register.

Components :- 8086 Trans kit.

Required

Code :-

Instruction	Comment
MOV AX, 01H	Initialise data 01 into AX register
MOV DX, 02H	Initialise 02H into DX register
MOV BP, 01H	Initialise 01H into BP register
MOV SI, AX	Initialise of SI register and perfor transfer AX content into SI register
ASHL AX, 01	Perform shift Left operation
ADD ADD SI, AX	Add the content of AX & SI register
ADD ADD SI, DX	Add the content of DX and SI register

MOV CL, 02

Initialise a counter

SHL DX, CL

Perform shift left operation
and content of AX

ADD SI, DX

Perform addition on DX
& SI register

ADD SI, BP

Add content of BP &

~~MOV CX, SI~~

~~SI~~
~~Move content of SI to CX~~

~~HLT~~

~~Terminate~~

Result:

MOV CX, SI

Move content of SI to
CX register.

HLT

Terminate.

Result:-

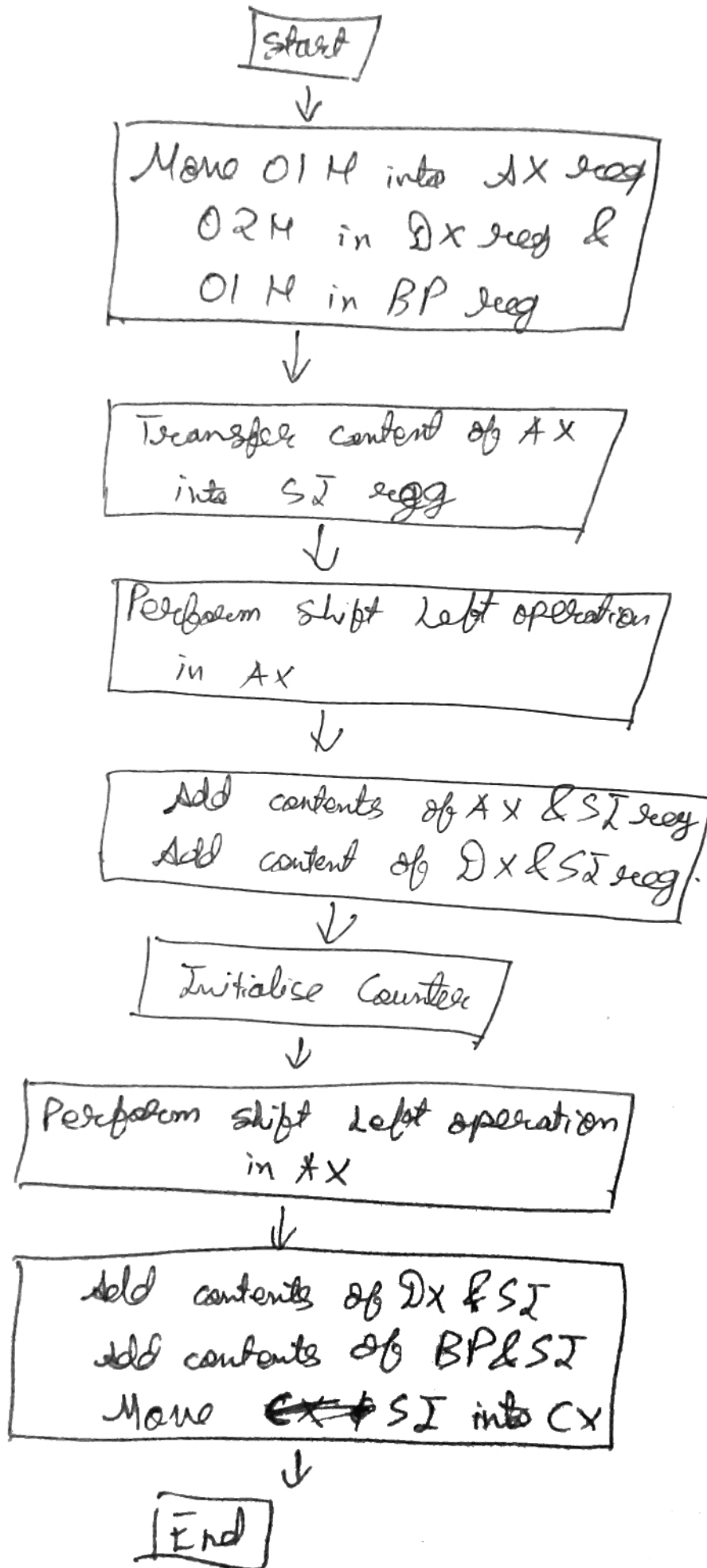
AX $\Rightarrow 01 \times 3 = 3$

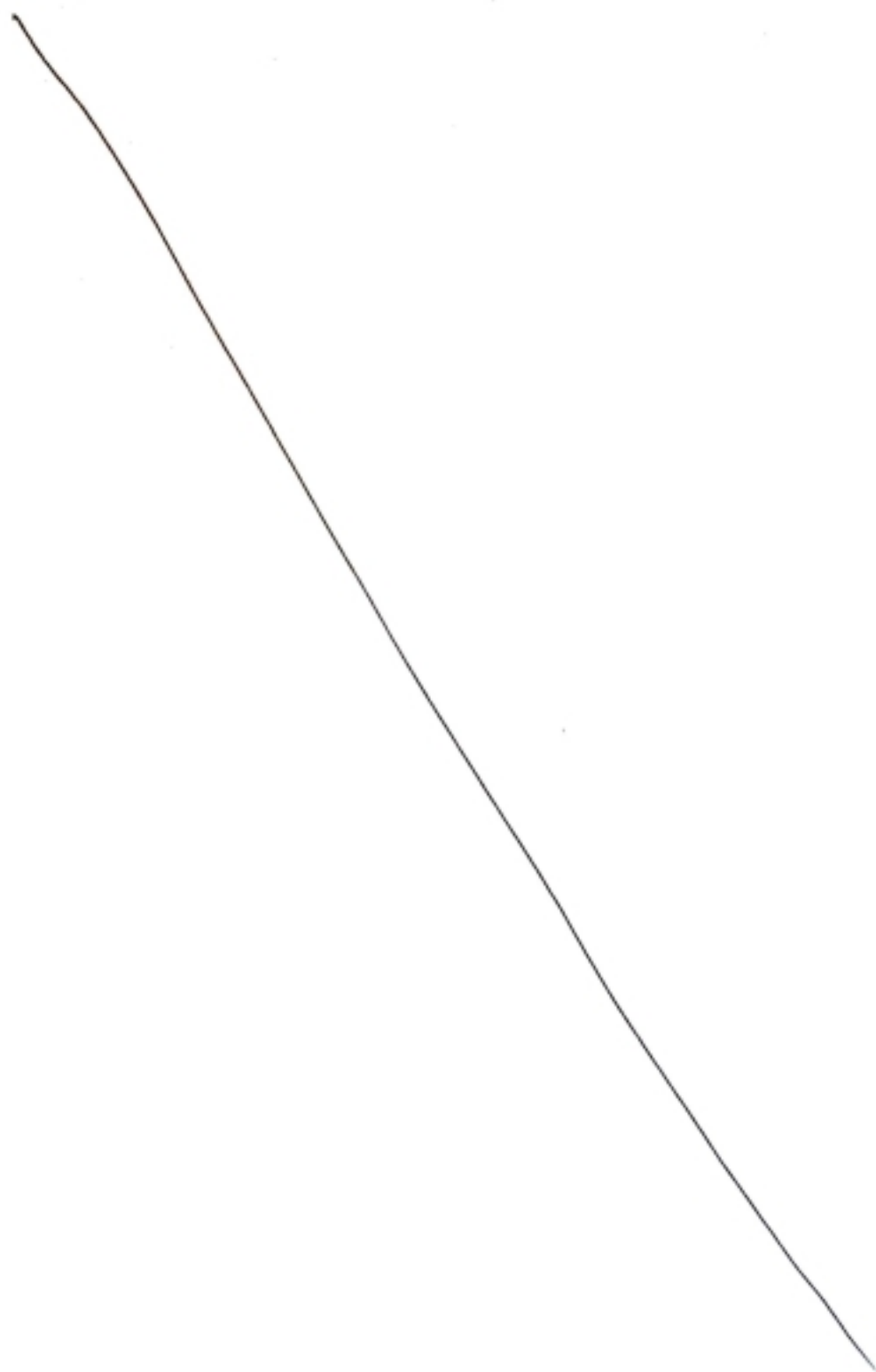
DX $\Rightarrow 02 \times 5 = 10$

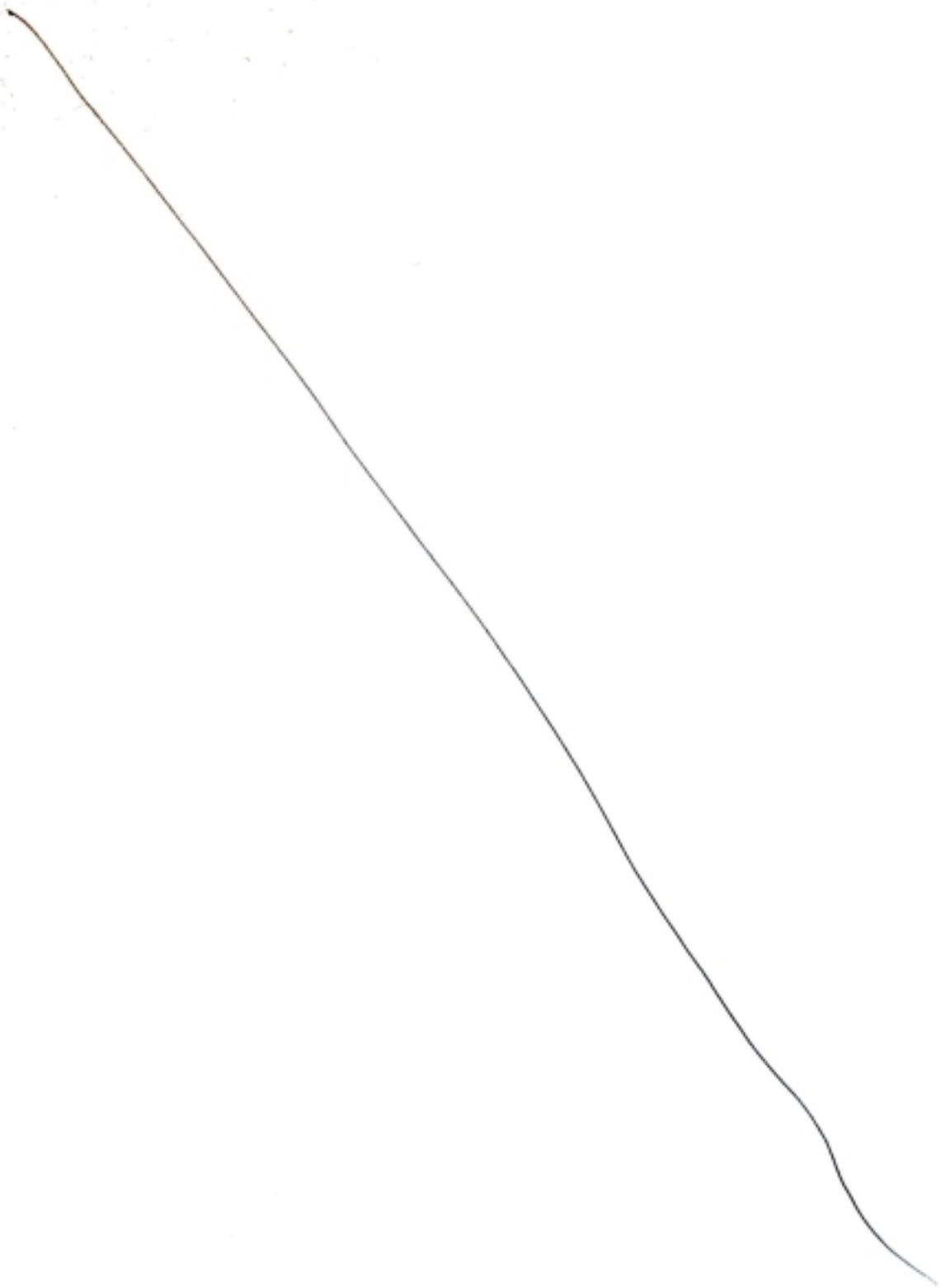
BP $\Rightarrow 01 \times 01 = 01$

CX $\Rightarrow 14$

Flow Chart







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