

# PUSH & POP

```
MOV BX, 2050H  
PUSH BX  
POP CX
```

Add	Data
0FFCH	
0FFDH	
0FFEH	
0FFFH	
1000H	
1001H	
1002H	XX

STACK initially

```
SS: [SP-1] ← BH  
SS: [SP-2] ← BL  
SP ← SP-2
```

Add	Data
0FFCH	
0FFDH	
0FFEH	
0FFFH	
1000H	50H
1001H	20H
1002H	XX

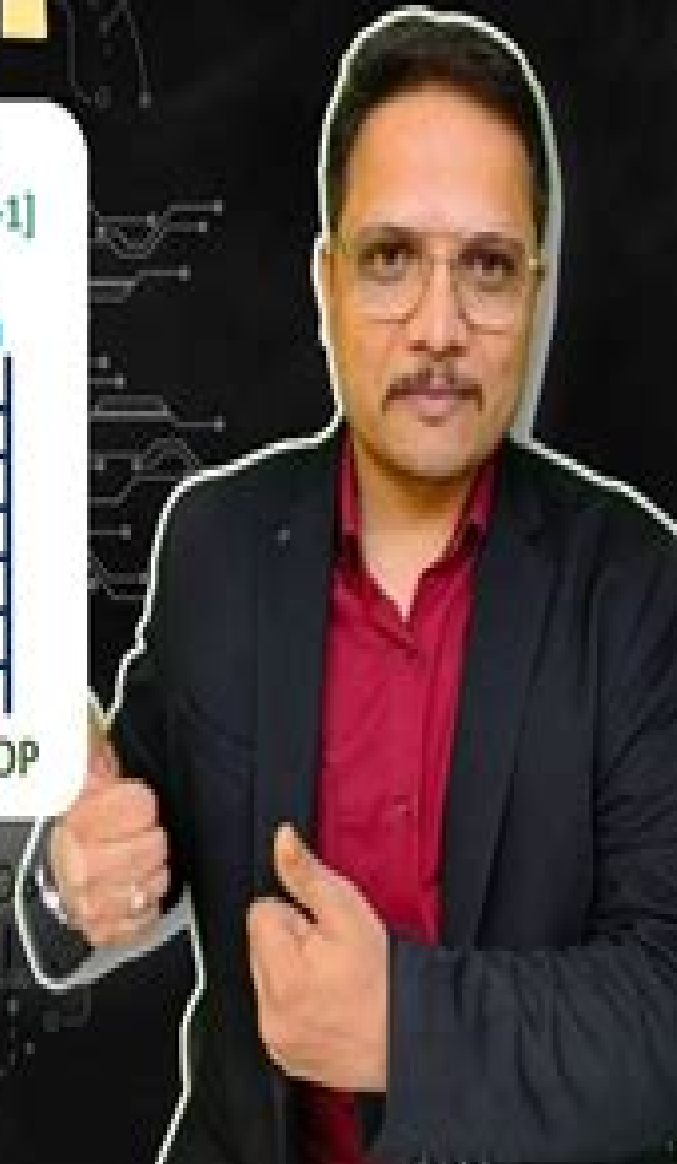
STACK after PUSH

```
CL ← SS: [SP]  
CH ← SS: [SP+1]  
SP ← SP+2
```

Add	Data
0FFCH	
0FFDH	
0FFEH	
0FFFH	
1000H	
1001H	
1002H	XX

STACK after POP

# 32 8086 MP



# Push Instruction In 8086

**Mr. Rohit Manglik**



## **Push Instruction In 8086:**

*Microprocessor 8086 : Architecture, Programming and Interfacing* Mathur Sunil, 2010-12 Primarily intended for the undergraduate students of electronics and communication engineering computer science and engineering and information technology this book skilfully integrates both the hardware and software aspects of the 8086 microprocessor It offers the students an up to date account of the state of the art microprocessors and therefore can be regarded as an incomparable source of information on recently developed microprocessor chips The book covers the advanced microprocessor architecture of the Intel microprocessor family from 8086 to Pentium 4 The text is organized in four parts Part I Chapters 1 7 includes a detailed description of the architecture organization instruction set and assembler directives of microprocessor 8086 Part II Chapters 8 11 discusses the math coprocessor multiprocessing and multiprogramming the different types of data transfer schemes and memory concepts Part III Chapters 12 15 covers programmable interfacing chips with the help of extensive interfacing examples Part IV Chapters 16 18 deals with advanced processors from 80186 to Pentium 4 This well organized and student friendly text should prove to be an invaluable asset to the students as well as the practising engineers

**KEY FEATURES** Gives elaborate programming examples to develop the analytical ability of students Provides solved examples covering different types of typical interfacing problems to develop the practical skills of students Furnishes chapter end exercises to reinforce the understanding of the subject

**Microprocessor System** Saifullah Khalid, Dr. Neetu Agrawal, 2009-05

**Fundamentals of Digital Logic and Microcomputer Design** M. Rafiquzzaman, 2005-07-08

Fundamentals of Digital Logic and Microcomputer Design has long been hailed for its clear and simple presentation of the principles and basic tools required to design typical digital systems such as microcomputers In this Fifth Edition the author focuses on computer design at three levels the device level the logic level and the system level Basic topics are covered such as number systems and Boolean algebra combinational and sequential logic design as well as more advanced subjects such as assembly language programming and microprocessor based system design Numerous examples are provided throughout the text Coverage includes Digital circuits at the gate and flip flop levels Analysis and design of combinational and sequential circuits Microcomputer organization architecture and programming concepts Design of computer instruction sets CPU memory and I/O System design features associated with popular microprocessors from Intel and Motorola Future plans in microprocessor development An instructor's manual available upon request Additionally the accompanying CD ROM contains step by step procedures for installing and using Altera Quartus II software MASM 6 11 8086 and 68asm sim 68000 provides valuable simulation results via screen shots

Fundamentals of Digital Logic and Microcomputer Design is an essential reference that will provide you with the fundamental tools you need to design typical digital systems

Microprocessors and Microcomputer-Based System Design Mohamed Rafiquzzaman, 2021-11-01 Microprocessors and Microcomputer Based System Design Second Edition builds on the concepts of the first edition It discusses the basics of microprocessors various 32

bit microprocessors the 8085 microprocessor the fundamentals of peripheral interfacing and Intel and Motorola microprocessors This edition includes new topics such as floating point arithmetic Program Array Logic and flash memories It covers the popular Intel 80486 80960 and Motorola 68040 as well as the Pentium and PowerPC microprocessors The final chapter presents system design concepts applying the design principles covered in previous chapters to sample problems

**Microprocessors and Microcontrollers** Mr. Rohit Manglik, 2024-07-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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**Digital Electronics and Introduction to**

**Microprocessors and Microcontrollers** Atul P. Godse, Dr. Deepali A. Godse, 2021-01-01 The book begins with bipolar and unipolar logic families It teaches you the TTL and CMOS logic families It provides in depth information about analog to digital converters and digital to analog converters It also covers semiconductor memories and programmable logic devices Then the book introduces microprocessors and microcontrollers It introduces microprocessor with basic concepts terminologies phases in the execution process evolution block diagram programming instruction format addressing modes architectural advancements selection criteria and applications It also explains the block diagram various types and applications of the microcontrollers Finally the book incorporates a detailed discussion of display devices

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**Advanced Processors** Atul P. Godse,Dr. Deepali A. Godse,2021-01-01 The book is written for an undergraduate course on the 16 bit 32 bit and 64 bit Intel Processors It provides comprehensive coverage of the hardware and software aspects of 8086 88 80286 80386 80486 and Pentium Processors The book uses plain and lucid language to explain each topic The book provides the logical method of explaining the various complicated concepts and stepwise techniques for easy understanding making the subject more interesting The book begins with the 8086 architecture instruction set Assembly Language Programming ALP and interfacing 8086 with support chips memory and I O It focuses on features architecture pin description data types addressing modes and newly supported instructions of 80286 and 80386 microprocessors It discusses various operating modes supported by 80386 Real Mode Protected Mode and Virtual 8086 Mode Finally the book focuses on multitasking exception handling 80486 architecture Pentium architecture and RISC processor It describes Pentium superscalar architecture pipelining instruction pairing rules instruction and data cache floating point unit Pentium Pro architecture Pentium MMX architecture Hyper Treading Core2 Duo features and concept of RISC processor      **DIGITAL ELECTRONICS - II** ,2025-03-21 TP SOLVED SERIES For BCA Bachelor of Computer Applications Part II Fourth Semester Rashtrasant Tukadoji Maharaj Nagpur University RTMNU      Advanced Microprocessors and Microcontrollers B.P. Singh,19??      **2024-25 RRB Technician Grade-I Signal Basic Science & Engineering Study Material Question Bank** YCT Expert Team , 2024 25 RRB Technician Grade I Signal Basic Science Engineering Study Material Question Bank 448 895 E This book contains 2500 questions and also covers Physics Fundamentals Electricity and Magnetism and Electronics and Measurements      **PC Based Instrumentation and Control** Michael H. Tooley,2005 Save money and

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