CHAPTER 3
INPUT AND OUTPUT HANDLING

SHORT AND LONG QUESTIONS

Q1. Define Input Devices.

Ans: Input Devices:

Input devices are hardware devices that are used to enter data and instructions into the computer system. **Examples are keyboard, mouse, scanner, joystick, microphone, etc.**

Q2. Define output devices.

Ans: Output Devices:

Output devices are hardware devices that are used to display information to users or to produce physical output. **Examples are monitor, printer, speakers, etc.**

Q3. What is Input Statement in C++? Explain with example.

Ans: Extracting Data Operator

Input:

The extraction operator (>>) is used to extract data from stream.

Syntax:

```
cin >> variable;
```

Example:

```
int x;
cin >> x;
```

Output:

```
5
```

Here, the extraction operator (>>) is used to extract 5 and store it in variable x. Let's see another example:



Output:

```
Enter a number: 5
You entered: 5
```

Here, the extraction operator (>>) is used to extract 5 and store it in variable x. Then, the value of x is printed to the screen.

Q4. Extracting Data Operator

Ans: The extraction operator (>>) is used to extract data from stream.

Syntax:

```
cin >> variable;
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Example:

```
int x;
cin >> x;
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Output:

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5
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Here, the extraction operator (>>) is used to extract 5 and store it in variable x. Let's see another example:

Output:

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Enter a number: 5
You entered: 5
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Here, the extraction operator (>>) is used to extract 5 and store it in variable x. Then, the value of x is printed to the screen.

Q5. Explain the following with suitable example: (i) Input Operator (ii) Output Operator (iii) Stream Manipulator

Ans: (i) Input Operator:

The input operator (>>) is used to read data from the keyboard and store it in variables. For example, **cin >> variable;** reads the value entered by the user and stores it in the variable.

(ii) Output Operator:

The output operator (<<) is used to display data on the screen. For example, **cout << "Hello, World!";** displays the text "Hello, World!" on the screen.

(iii) Stream Manipulator:

Stream manipulators are used to format the input and output of data. For example, **setw(n)** sets the width of the next input or output field to n characters, and **setprecision(n)** sets the number of digits to display after the decimal point for floating-point numbers.

Q6. Explain the following with suitable example: (i) Input Operator (ii) Output Operator (iii) Stream Manipulator

Ans: (i) Input Operator:

The input operator (>>) is used to read data from the keyboard and store it in variables. For example, **cin >> variable;** reads the value entered by the user and stores it in the variable.

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The output operator (<<) is used to display data on the screen. For example, **cout << "Hello, World!";** displays the text "Hello, World!" on the screen.

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Header files contain declarations of functions and variables that can be used in multiple source files. They are typically included at the beginning of a source file using the **#include** directive.

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The input operator (>>) is used to read data from the keyboard and store it in variables. For example, **cin >> variable;** reads the value entered by the user and stores it in the variable.

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Ans: (i) Header Files:

Header files contain declarations of functions and variables that can be used in multiple source files. They are typically included at the beginning of a source file using the **#include** directive.

(ii) Input Operator:

The input operator (>>) is used to read data from the keyboard and store it in variables. For example, **cin >> variable;** reads the value entered by the user and stores it in the variable.

(iii) Output Operator:

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Q49. Explain the following: (i) Header Files (ii) Input Operator (iii) Output Operator

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Q50. Explain the following: (i) Header Files (ii) Input Operator (iii) Output Operator

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(iii) Output Operator:

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The output operator (<<) is used to display data on the screen. For example, **cout << "Hello, World!";** displays the text "Hello, World!" on the screen.

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(iii) Output Operator:

The output operator (<<) is used to display data on the screen. For example, **cout << "Hello, World!

Computer Science

EXERCISE

Q1. Answer the best answer for the following MCQs.
What instruction is used for subroutine in 8 bit package?
A. CALL
B. JUMP
C. RET
D. HLT

Which instruction fetches/reads a 1 in Instruction?
A. Fetch cycle
B. Read cycle
C. Execute cycle
D. Write cycle

Which instruction gate is used to add or store a floating point value?
A. OR
B. NOT
C. AND
D. XOR

Which number sequence is used for every cycle for Pentagon/Hexagon of 8085?
A. 1
B. 2
C. 3
D. 4

Computer Science

Which of the following is an arithmetic operation?
A. OR
B. AND
C. ADD
D. NOT

Which of the following is a logical operation?
A. ADD
B. SUB
C. AND
D. MUL

Which instruction is equivalent to "no-op"?
A. MOV
B. NOP
C. HLT
D. ADD

Which of the following is an increment operation?
A. INR
B. DCR
C. ADD
D. SUB

Which of the following operation has the highest precedence?
A. OR
B. AND
C. NOT
D. XOR

Computer Science

What will be the output of the expression: A+B^C?
A. 1
B. 2
C. 3
D. 4

A	0	0	0	0	1	1	1
B	0	0	1	1	0	0	1
C	0	1	0	1	0	1	0

SHORT QUESTIONS

Q2. Write short answers to the following questions.
Why Accumulator is used? Explain with examples.
Ans. Accumulator is used for:

- Arithmetic operations: ADD, SUB, MUL, DIV
- Logical operations: AND, OR, XOR, NOT
- Data transfer: MOV A, B or MOV A, M
- Input/Output operations: IN, OUT
- Comparisons: CMP, CPI

Computer Science

Write down the purpose of the following instructions.

Mnemonic	**Purpose**
ADD	Add register or memory to accumulator
SUB	Subtract register or memory from accumulator
MOV	Move data between registers or memory
JMP	Jump to a specified memory address

Write down the purpose of the following instructions.

Mnemonic	**Purpose**
CALL	Call a subroutine
RET	Return from a subroutine
HLT	Halt the processor
NOP	No operation

Write down the purpose of the following instructions.

Mnemonic	**Purpose**
IN	Input data from a port
OUT	Output data to a port
CMP	Compare two values
JZ	Jump if zero flag is set

Write down the purpose of the following instructions.

Mnemonic	**Purpose**
JNZ	Jump if zero flag is not set
JC	Jump if carry flag is set
JNC	Jump if carry flag is not set
PUSH	Push register pair onto stack
POP	Pop register pair from stack

Computer Science

Write down the purpose of the following instructions.

Mnemonic	**Purpose**
XCHG	Exchange HL and DE register pairs
DAD	Add register pair to HL
RST	Restart (software interrupt)
EI	Enable interrupts
DI	Disable interrupts

Write down the purpose of the following instructions.

Mnemonic	**Purpose**
RIM	Read interrupt mask
SIM	Set interrupt mask
HLT	Halt the processor

Computer Science

```
LXI B,4000H
MVI A,05H
MOV C,A
MVI A,00H
ADD C
DCR C
JNZ LOOP
STA 4002H
HLT
```

Q3. What will be the output of the following program?
Write down the purpose of each instruction.

```
MVI A,05H
MVI B,03H
ADD B
ADD B
ADD B
STA 4150H
HLT
```

Ans. Output:
A = 14
B = 03
Carry = 0

Q3. What will be the output of the following program?
Write down the purpose of each instruction.

```
MVI A,05H
MVI B,03H
ADD B
ADD B
ADD B
STA 4150H
HLT
```

Ans. Output:
A = 14 (0EH)
B = 03H
Carry = 0

Q3. What will be the output of the following program?
Write down the purpose of each instruction.

```
MVI A,05H
MVI B,03H
ADD B
ADD B
ADD B
STA 4150H
HLT
```

Ans. Output:
A = 14 (0EH)
B = 03H
Carry = 0

Computer Science

```
LXI B,4000H
MVI A,05H
MOV C,A
MVI A,00H
ADD C
DCR C
JNZ LOOP
STA 4002H
HLT
```

Q3. What will be the output of the following program?
Write down the purpose of each instruction.

```
LXI B,4000H
MVI A,05H
MOV C,A
MVI A,00H
ADD C
DCR C
JNZ LOOP
STA 4002H
HLT
```

Ans. Output:
A = 15 (0FH)
B = 05H
C = 00H
Carry = 0

EXTENSIVE QUESTIONS

Q1. Describe the basic units of computer organization/ operation. List uses?
Ans. Basic units of computer organization/ operation:
- **Arithmetic Logic Unit (ALU):** Performs arithmetic and logical operations.
- **Control Unit:** Manages the execution of instructions.
- **Memory Unit:** Stores data and instructions.
- **Input/Output Unit:** Handles communication with external devices.

Uses:
- **Arithmetic operations:** Addition, subtraction, multiplication, division.
- **Logical operations:** AND, OR, NOT, XOR.
- **Data transfer:** Moving data between registers, memory, and I/O devices.
- **Control operations:** Branching, looping, and subroutine calls.

Q2. Describe the Accumulator Based Operations?
Ans. Accumulator Based Operations:
Accumulator-based operations are a type of instruction set architecture (ISA) where most arithmetic and logical operations implicitly use the accumulator as one of the operands and as the destination for the result. This means that the accumulator is both a source and a destination for most operations.

Q3. Describe the Accumulator Addressing Instructions?
Ans. Accumulator Addressing Instructions:
Accumulator addressing instructions are a type of instruction that implicitly uses the accumulator as the operand. This means that the instruction does not explicitly specify the accumulator as an operand, but it is understood that the accumulator is being used.

Q4. Describe the Accumulator Addressing Instructions?
Ans. Accumulator Addressing Instructions:
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