

# 38 Lecture - CS201

## Important Mcqs

1. **What is a user-defined manipulator in C++?**

- A. A function that modifies the input of a stream
- B. A function that modifies the output of a stream
- C. A function that sorts an array of integers
- D. A function that calculates the factorial of a number

**Answer: B**

2. **How are user-defined manipulators defined in C++?**

- A. As member functions of a class
- B. As global functions outside of any class
- C. As friend functions of a class
- D. As virtual functions of a class

**Answer: B**

3. **What is the purpose of a user-defined manipulator?**

- A. To read input from a stream
- B. To modify the output of a stream
- C. To create a new stream object
- D. To delete data from a stream

**Answer: B**

4. **Which operator is used to call a user-defined manipulator?**

- A. >>
- B. <<
- C. +
- D. -

**Answer: B**

5. **What is the syntax for defining a user-defined manipulator function?**

- A. `void manipulator(ostream& stream);`
- B. `ostream& operator<<(ostream& stream, manipulator fn);`
- C. `int manipulator(int x);`
- D. `void operator<<(ostream& stream, manipulator fn);`

**Answer: B**

6. **What is the return type of a user-defined manipulator function?**

- A. void
- B. int

- C. char
- D. ostream&

**Answer: D**

7. **What is the purpose of the `std::setw()` function?**
- A. To set the width of the output field
  - B. To set the precision of the output field
  - C. To set the fill character of the output field
  - D. To set the format flags of the output field

**Answer: A**

8. **What is the purpose of the `std::setfill()` function?**
- A. To set the width of the output field
  - B. To set the precision of the output field
  - C. To set the fill character of the output field
  - D. To set the format flags of the output field

**Answer: C**

9. **What is the purpose of the `std::setprecision()` function?**
- A. To set the width of the output field
  - B. To set the precision of the output field
  - C. To set the fill character of the output field
  - D. To set the format flags of the output field

**Answer: B**

10. **Which header file must be included to use user-defined manipulators in C++?**
- A. `<string>`
  - B. `<fstream>`
  - C. `<iostream>`
  - D. `<iomanip>`

**Answer: D**