C++ Complete Bootcamp [June 2021]

Assignment [Week 02]

Basics of C++

Basic I/O in C++

Conditional Statements (if - else if - else)

Looping Statements (for - while - do while)

Short Answering Questions [Part 1]

1. Write the basic structure of a C++ program without **iostream**?
2. What are the various types of **comments** in C++?
3. What is the significance of **#include** in C++ ?
4. What is the use of **cin** and **cout** and **cerr**in C++ ?
5. Can we write a void main function in C++ ? Why ?
6. What is the use of **if else** statement in C++?
7. What do you mean by **operators, operands and expression** ?
8. Discuss about **boolean** and **relational** operators?
9. What is the use of **manipulators** in C++ ?
10. Can we use **nested if else** inside a for loop. Give an example.

Short Answering Questions [Part 2]

1. Can we use a **for loop** inside a while loop ? Give an example.
2. Can we use for loop inside a **else block** with no condition ?
3. What is the use of **keywords** and **identifiers** ?
4. Write about the **naming conventions** in C++ for variables.
5. List some **keywords in C++** along with brief use.
6. Can we have **multiple variables** in an expression ?
7. Can the value of an expression ever be **void**?
8. Can we declare **void** type variables in C++ ? Why ?
9. Can we use **float data type** to store double values without typecasting?
10. Can we use **int** variable to store **character**. Why?

Coding Questions (Part 1)

1. Write a C++ program to input a number and print its table.

2. Write a C++ program to two numbers and check if they are co-prime.

3. Write a C++ program to input the PRINCIPAL, RATE and TIME and calculate and display the Compound INTEREST.

4. Write a C++ program to input the coordinates of two points and calculate the distance between them

5. Write a C++ program to input a year and check if it is leap or not.

Coding Questions (Part 2)

1. Write a C++ program to find all prime numbers till a number num as input.
2. Write a C++ program to find the factors of a number.
3. Write a C++ program to print all even numbers using do while loop.
4. Write a C++ program to print the find whether a number is palindrome or not.
5. Write a C++ program to check for an armstrong number.
6. Write a C++ program to check the if the string contains a vowel or not.
7. Write a C++ program for finding the square root of a number.
8. Write a C++ program for checking if a number if divisible by 11 or not.
9. Write a C++ program for reversing a number.
10. Write a C++ program to reverse a string.