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**BCS-031**

**Programming in C++**

Prepared by



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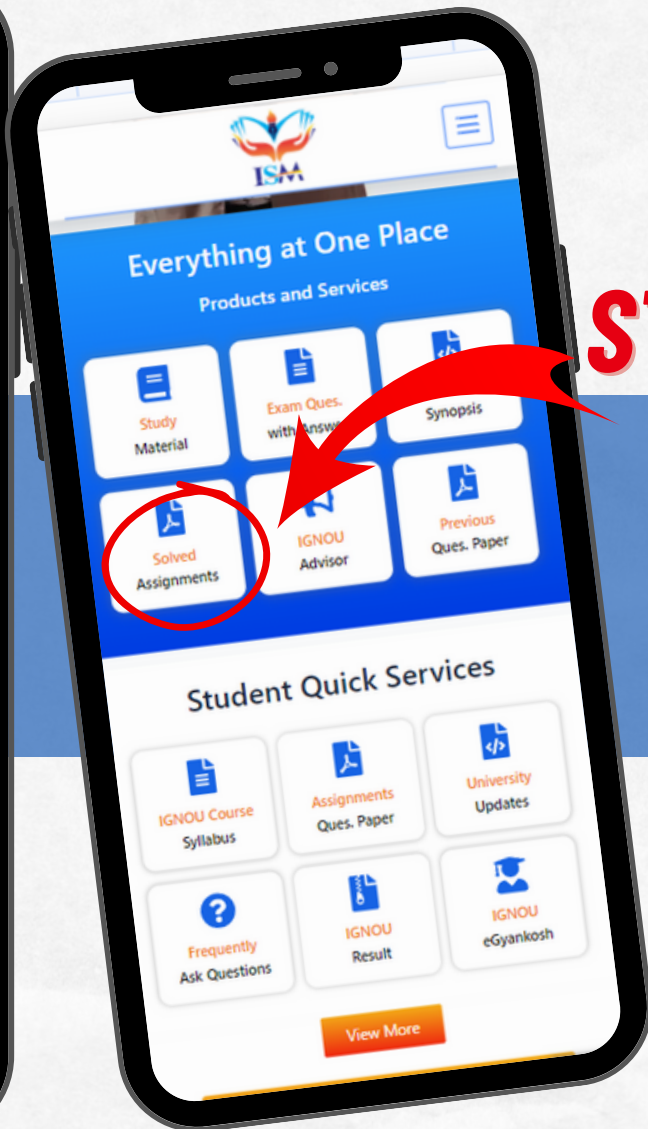
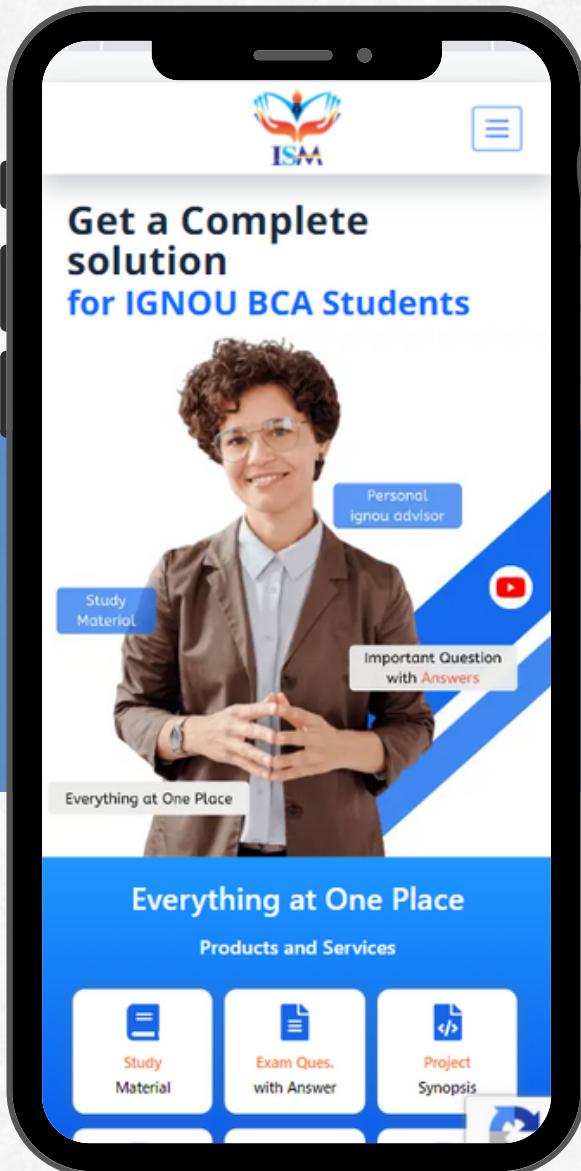


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## BCS-031

## PROGRAMMING IN C++ [SEM-3]

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**Ques.Q3. What is iostream ? Write a short note on it.**

**Ans.** In C++, `iostream` is a standard header file that provides input and output stream classes and related functions. It stands for "input-output stream." This header is an essential part of the C++ Standard Library and is used to handle console input and output operations, as well as file input and output operations.

The `iostream` header defines two main classes:

1. **iostream** (Input/Output Stream): This class is the base class for input and output streams. It defines functions and operators for reading from and writing to standard input (keyboard) and standard output (console). It's also used as a base class for more specialized stream classes.

2. `ifstream` (Input File Stream) and `ofstream` (Output File Stream): These classes are derived from `iostream` and provide functionality for reading from and writing to files. They allow you to perform file input and output operations easily.

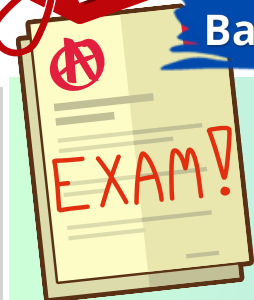
The `iostream` header includes various stream-related objects, such as:

- `cin`: The standard input stream object, used for reading input from the keyboard.

- `cout`: The standard output stream object, used for writing output to the console.



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## PROGRAMMING IN C++ [SEM-3]



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- `cerr`: The standard error stream object, used for writing error messages to the console.

- `clog`: The standard logging stream object, used for writing informational messages to the console.

Example of Using `iostream`:

```
#include <iostream>

int main() {
int num;

std::cout<<"Enter a number: ";
std::cin>>num;

std::cout<<"You entered: "<<num <<std::endl;
return 0;
}
```

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In this example, the `iostream` header is included at the beginning. The `std::cout` object is used to display a message to the user, and `std::cin` is used to read a number from the user. The entered number is then displayed using `std::cout`.

`iostream` is a fundamental part of C++ programming, providing a convenient way to interact with users through console input and output, as well as working with files. It plays a crucial role in building interactive and functional programs.



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