**DAILY ASSESSMENT FORMAT**

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| **Date:** | 26 June 2020 | **Name:** | Anupama J S |
| **Course:** | **C++** | **USN:** | 4AL16EC005 |
| **Topic:** | * Code Challenge | **Semester & Section:** | 8th sem “A”section |
| **Github Repository:** | AnupamaJS |  |  |

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| **MODULE 9**  **CHALLENGE**  **C:\Users\User\Desktop\Screenshot_2020-06-26-21-39-24-561_com.android.chrome.pngC:\Users\User\Desktop\Screenshot_2020-06-26-21-39-40-170_com.android.chrome.png**  C++ is a middle-level programming language developed by Bjarne Stroustrup starting in 1979 at Bell Labs. C++ runs on a variety of platforms, such as Windows, Mac OS, and the various versions of UNIX.   C++ is very close to hardware, so you get a chance to work at a low level which gives you lot of control in terms of memory management, better performance and finally a robust software development.   C++ programming gives you a clear understanding about Object Oriented Programming. You will understand low level implementation of polymorphism when you will implement virtual tables and virtual table pointers, or dynamic type identification.   C++ is one of the every green programming languages and loved by millions of software developers. If you are a great C++ programmer then you will never sit without work and more importantly you will get highly paid for your work.   C++ is the most widely used programming languages in application and system programming. So you can choose your area of interest of software development.   C++ really teaches you the difference between compiler, linker and loader, different data types, storage classes, variable types their scopes etc.  C++ is a super set of C programming with additional implementation of object-oriented concepts.  #include <iostream> using namespace std;    // main() is where program execution begins. int main() { cout << "Hello World"; // prints Hello World return 0; }      Applications of C++ Programming  C++ is one of the most widely used programming languages. It has it's presence in almost every area of software development. I'm going to list few of them here:   Application Software Development - C++ programming has been used in developing almost all the major Operating Systems like Windows, Mac OSX and Linux. Apart from the operating systems, the core part of many browsers like Mozilla Firefox and Chrome have been written using C++. C++ also has been used in developing the most popular database system called MySQL.   Programming Languages Development - C++ has been used extensively in developing new programming languages like C#, Java, JavaScript, Perl, UNIX’s C Shell, PHP and Python, and Verilog etc.   Computation Programming - C++ is the best friends of scientists because of fast speed and computational efficiencies.   Games Development - C++ is extremely fast which allows programmers to do procedural programming for CPU intensive functions and provides greater control over hardware, because of which it has been widely used in development of gaming engines.   Embedded System - C++ is being heavily used in developing Medical and Engineering Applications like software’s for MRI machines, high-end CAD/CAM systems etc.  C++ fully supports object-oriented programming, including the four pillars of objectoriented development −   Encapsulation   Data hiding   Inheritance   Polymorphism    Standard Libraries  Standard C++ consists of three important parts −   The core language giving all the building blocks including variables, data types and literals, etc.   The C++ Standard Library giving a rich set of functions manipulating files, strings, etc.   The Standard Template Library (STL) giving a rich set of methods manipulating data structures, etc.  The most important thing while learning C++ is to focus on concepts. The purpose of learning a programming language is to become a better programmer; that is, to become more effective at designing and implementing new systems and at maintaining old ones.  C++ supports a variety of programming styles. You can write in the style of Fortran, C, Smalltalk, etc., in any language. Each style can achieve its aims effectively while maintaining runtime and space efficiency.  C:\Users\User\Desktop\Screenshot_2020-06-26-21-40-49-235_com.android.chrome.png |

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