**DAILY ASSESSMENT FORMAT**

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| **Date:** | **22/06/2020** | **Name:** | **Lepakshi T V** |
| **Course:** | **C++** | **USN:** | **4AL17EC044** |
| **Topic:** | * **Basic Concepts** * **Conditional loops** | **Semester & Section:** | **6th sem A sec** |
| **Github Repository:** | **Lepakshi-044** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report – Report can be typed or hand written for up to two pages.**  C++ is a general-purpose programming language.  A C++ program is a collection of commands or statements.  Below is a simple code that has "Hello world!" as its output.  #include <iostream> using namespace std;  int main () { cout << "Hello world!"; return 0; }  C++ offers various headers, each of which contains information needed for programs to work properly. This particular program calls for the header **<iostream>**. The **number sign (#)** at the beginning of a line targets the compiler's pre-processor. In this case, **#include** tells the pre-processor to include the **<iostream>** header.  The C++ compiler **ignores**blank lines.  In our code, the line **using namespace std;** tells the compiler to the **std**(standard) **namespace**.  **Main**  Program execution begins with the main function, **int main ()**.  **Statements** A **block**is a set of logically connected statements, surrounded by opening and closing curly braces.  **Return** The last instruction in the program is the **return**statement. The line **return 0;** terminates the **main ()** function and causes it to return the value 0 to the calling process. A non-zero value (usually of 1) signals abnormal termination.  You can run, save, and share your C++ codes on our **Code Playground**, without installing any additional software.  **Comments** **Comments** are explanatory statements that you can include in the C++ code to explain what the code is doing. The compiler ignores everything that appears in the comment, so none of that information shows in the result. A comment beginning with **two slashes (//)**is called a single-line comment. The slashes tell the compiler to ignore everything that follows, until the end of the line.  **Multi-Line Comments** Comments that require multiple lines begin with **/\*** and end with **\*/** You can place them on the same line or insert one or more lines between them.  The following program prompts the user to input a number and stores it in the variable **a**:  #include <iostream> using namespace std; int main () { int a; cout << "Please enter a number \n"; **cin >> a;**  return 0; }  **Increment Operator** The increment operator has two forms, **prefix**and **postfix**.++x; // prefix x++; // postfix **Prefix**increments the value, and then proceeds with the expression. **Postfix**evaluates the expression and then performs the incrementing. **Prefix example :**x = 5; y = **++x**; // x is 6, y is 6 **Postfix example :**x = 5; y = **x++**; // x is 6, y is 5  The **if** statement is used to execute some code if a condition is true. **Syntax: if** (condition) { statements }  **Multiple Conditions**  Sometimes there is a need to test a variable for equality against multiple values. That can be achieved using multiple if statements. **For example:**  int age = 42; if (age == 16) { cout <<"Too young"; } if (age == 42) { cout << "Adult"; } if (age == 70) { cout << "Senior"; } |